Engineering
Pur Direct
2-13-51
73423
Acc

INDEX

BIBLIOGRAPHY OF

Vol. 12 July-December 1949 Nos. 1-6

A

	PB	Page
Abrasion tests	98014	101
Accelerators, electronic - directory	97610	40
Accelerometers:		
design	96890	16
recording	97211	17
Acetaldehyde:		
analysis - Germany	98623	208
Germany	97364	37
production - Germany	98193	158
Acetals - preparation - Germany	98884	203
Acetate process (German)	7416s2	26
	7416s3	27
	7416s4	27
	7416s5	27
Acetates	7416s2	26
	7416s3	27
	7416s4	27
	7416s5	27
Acetic:		
acid -		
analysis - Germany	70168t4	37
	70168t5	36
production - Germany	98193	158
anhydride - production - Germany	98193	158
Acetone - production - Germany	97486	69
	98193	158
Acetylene:		
chemical properties - Germany	97524	45
chemistry - Germany	97524	45
hydrogenation - Germany	98603	210
production - Germany	97486	69
reactions - Germany	97016	38
Acid(s):		
amino see Amino acids		
fatty see Fatty acids		
luteinic	97425	70
methylene dithio - Germany	98149	108
see also acids by name		
Acoustic research - Germany	97531	185
Acridine, 9-amino hydrochloride	97766	66
bactericidal action	97789	67
Acrylic acid:		
preparation - Germany	97016	38
production - Germany	97180	36
Adamsite - toxocity	97056	176
Adhesives:		
Germany	97387	140
strength - tests	97148	5
see also Cements; Glue		
Adiabatic phenomena	98494	157
Admixers, foam - Germany	92113	142
Adrenals - extract, cortical	97301	88
synthetic - Germany	32536t28	3
Aerodynamics:		
boundary layer	97380	138
Germany	85032	140
mathematics	98313	200
Possio integral equation	97348	137
research - Gt. Brit	97138	11
supersonic	97189	138
see also Air flow; Airfoil theory; Airplanes - aerodynamics; Boundary layer; Drag; Wind tunnels; Wings - lift; and aerodynamics under special subjects.		
Aerodynamische Versuchsanstalt, Göttingen, Ger	97463	184
Aeronautical instruments see Instruments, aeronautical		
Aeronautics:		
research	97134	28
yearbook	97134	28
Aerosols	97308	38
physiological effects	97447	49
see also Insecticides		
AFA Werk, Hagen, Ger	97512	42
Afterglow	97695	186
Agglutinins	97970	120
Aggregates, mineral - bibliography	98142	123
Ailerons:		
aerodynamics	97553	133
controls - tests	97662	194
Air:		
blasts see Blasts, air		
contamination	96994	175
flow	96877	233
Germany	97650	193
high speed	98580	250
supersonic	97348	137
foils - aerodynamics	97348	137
pressure see Pressure, air		
purification - Gt. Brit	97352	226
screws see Propellers		
Air - Continued		
speed -		
calculation	97467	134
indicators - calibration	97467	134
see also Instruments, aeronautical		
Aircraft:		
coatings, protective	97956	245
industry - standards - Germany	97155	29
instruments see Instruments, aeronautical		
steel construction	97655	51
structure - Germany	97302	246
wood construction	98113	85
see also Airplanes; Gliders; Helicopters; Seaplanes		
Airfoil(s):		
boundary layer	97545	132
cambered	97109	30
compressibility effect	97459	134
drag	97279	194
lift	97279	194
NACA 64-210	97459	134
oblique	97150	62
oscillations	97035	137
	97036	137
pressure distribution	97693	195
	98338	200
Germany	65656	173
theory	97693	195
velocity distribution	97546	133
wind tunnel tests	97545	132
yawing	97315	194
see also Air flow		
Airplanes:		
accidents - Gt. Brit	97636	192
aerodynamics	97653	195
	98320	200
see also Aerodynamics		
aileron see Ailerons		
B-36	97034	88
	97274	88
B-50	98520	177
balance	97664	194
bomber - aerodynamics	92262	133
	97117	65
C-82	97820	105
C-97A	97664	194
construction materials see Airplanes - materials		

	PB	Page
Airplanes - Continued		
control system - friction - Gt. Brit.	97141	246
deicing see Airplanes - icing prevention		
elevators see Elevators, aircraft		
engines see Engines, aircraft		
equipment - tests	97685	40
F-63	98720	248
fighter -		
aerodynamics	97206	63
XP-67	98542	247
fire control see Fire control, aircraft		
floors - tests	97929	123
fuselages see Fuselages		
guns see Guns, aircraft		
icing	97698	105
prevention	96953	136
	97116	62
	97178	102
	97698	105
ignition systems see Engines, aircraft - ignition systems		
instruments see Instruments, aeronautical		
jet propelled -		
aerodynamics	98457	252
Germany	97164	245
research	98457	252
wind tunnel tests	92259	133
L-133	98457	252
landing	97671	245
gear see Landing gear		
lift	97028	104
loading	97664	194
materials -		
magnesium alloys	97929	123
plastics	98660	152
nacelles see Nacelles		
noise - measurements - Germany	98758	247
P82E	97599	246
performance	97544	131
power plants see Engines, aircraft		
rudders see Rudders, aircraft		
S-1B1	97594	133
seats see Seats, pilot		
sideslip	97315	194
skin - Netherlands	97622	195
soundproofing see Airplanes - noise		
speed	97844	244
	97845	244
measurements	97221	28
	97554	64
	97671	245
spinning	97381	252
stability	98936	247
stalling	97028	104
	97400	61
	97545	132
structure - tests	98568	227
take-off	97544	131
	97636	192
temperature measurements - Australia	92594	30
Typhoon	97140	198
weight	97664	194
wind tunnel tests	97028	104
wings see Wings		
XB-48	97099	29
XC-99	98569	196
XL-6	97594	133
XP-58	98560	189

	PB	Page
Airplanes - Continued		
YC-97A	97664	194
YC-97B	97664	194
see also Aircraft; Flying boats; Seaplanes		
Akaustan (trade name)	98485	191
AKO (Kommission für Azofarben	98882	204
	98883	204
	98884	203
	98885	203
Albert, C. & H. Wiesbaden, Ger	97518	33
Alclad -		
welding	27095	24
see also Aluminum alloys		
Alcohols:		
reactions - Germany	97016	38
synthesis	98698	211
see also Fuels, liquid; specific alcohols by name		
Alexanderwerk A. G., Remscheid, Ger	97919	116
Alloys:		
corrosive resisting	97655	51
high temperature	97290	21
creep test	98392	177
physical properties	98392	177
Germany	98784	225
	98830	225
research	98392	177
tensile properties	97795	91
tests	97472	50
	98939	251
light metal - foundries - Germany	97854	89
N-155	98392	177
sintering - patents - Germany	84559t3	148
steels see Steel alloys		
see also under names of metals		
Alternators, magnet	98304	215
Altimeters, radar - tests - Canada	87259s	15
Altitude, high - physiological effects	97032	86
Alumina oxide - tests	97813	124
Aluminiumwerke Nürnberg G.m.b. H., Nuremberg, Ger	97854	89
Aluminum:		
alloy -		
14 ST	98568	227
24S-T	97089	22
	97135	21
	97201	52
24S-T3	97114	23
24S-T86	97135	21
75S-T	97107	22
	97135	21
75S-T6	97114	23
	97208	49
195 TS	98568	227
bending tests	98568	226
compression	97114	23
	97201	52
fatigue tests	97401	51
machinability	98269	123
strain	97107	22
	97114	23
	97208	49
tensile properties	97089	22
	97135	21
tests	97291	52
Germany	98083	178
see also Alclad		

	PB	Page
Aluminum - Continued		
chloride - use in synthetic rubber production - Germany	98164	237
compounds	97123	23
	97123s	209
properties	96762	237
recovery - patents - Germany	84559t6	149
silicate - effect of moisture - Russia	97749	167
tests	96970	179
welding	27096	24
Amalgams:		
sodium - use as reducing agents	97500	111
zinc - use as reducing agents	97500	111
Amides - chloro	98539	158
Amines:		
acetyl - production - Germany	70063t12	68
aromatic - analysis	98737	232
polymerization	98654	152
Amino acids:		
effect on yeast	97780	66
research	98255	216
	98256	217
synthesis	98223	164
Ammonia - properties	97815	71
Ammonium:		
chlorogallate -		
preparation	98426	157
properties	98426	157
compounds -		
bactericidal action	97784	66
quarternary - tests	97807	70
tests	97784	66
Amplifiers:		
AM-1A	97212	9
band-pass - inventions	97256	146
direct coupled	97212	9
direct current	98522	160
gain measurement	98522	160
	98746	213
I-F	97111	9
magnetic	98547	213
Germany	98551	212
	98730	212
radio frequency (RF)	98746	213
stabilizing	96910	18
Analyzers:		
acoustic	96911	18
magnetic	97796	95
radio frequency	97344	17
	98742	212
Anemometers, hot wire	96913	16
	97389	79
Aniline:		
dimethyl - Germany	70058t8	109
hydrolysis - Germany	764t	70
production - Germany	70063t11	68
	97486	69
reactions	97560	44
Anorgana G.m.b.H., Gendorf, Ger	97016	38
Anoxemia	97448	226

	PB	Page
Antennas:		
efficiency - measurement	98561	160
frame see Antennas, loop		
gain - measurement	98561	160
loop	97413	40
inventions	97236	144
mounts - inventions	97262	144
radiated power - inventions	97245	144
	97263	144
radio -		
airborne	98345	159
direction finders - inventions	97258	145
rhombic	98292	160
slot - design	98648	214
wave	98292	160
Anthelmintics - research - Germany	97435	174
Anthracene - production - Germany	97486	69
Anthraquinone - production - Germany	97486	69
Anthropometry	98290	226
Antibiotics - research	97810	175
	98627	203
Antibodies	97970	120
Antifoaming agents - production	97115	15
Antioxidants	98246	216
Antipyrine, methylamino - Germany	32536t40	2
Appetite	98237	165
Argon, liquid - sound absorption	97709	184
Arrhenius equations	98654	152
Arsine, dichloroethyl - toxicity	97056	176
Arthritis	98062	121
Ascorbic acid - determination	98264	115
Askania Vibrograph (Trade name)	98122	171
Askania-Werke A. G., Berlin	98122	171
Asphalt - tests	97897	125
Atmosphere:		
compressibility	97279	194
electricity	97412	39
pressure	66219s	126
measurements	96933	18
visibility	98629	234
see also Altitude; Humidity: Ozone; Polarization		
Atomic power:		
engineering	96989	162
research	92735	170
	96762	237
	96763	237
	96764	236
	96765	236
	96963	236
	96970	179
	96974	237
	96977	237
	96979	156
	96986	236
	96987	236
	96988	237
	96989	162
	96994	175
	96999	179
	97005	156
	97012	156
	97335	51
	97409	57
Atomic power - Continued		
	97410	57
	97419	57
	97420	57
	97421	56
	98614	209
Sweden	97647	89
Atoms, orthotropic shells	97088	126
Attenuators, variable - inventions	97239	147
Autogiro - XO-61	98081	154
Automatic pilots see Pilots, automatic		
Aviation see Aeronautics		
Azo colors - dyes see Dyes, azo		

B

	PB	Page
Bacon - preservation	98257	218
	98258	218
Bacteriostasis - testing methods	97766	66
Bags, clothing:		
tests	98041	203
XB-5	98041	203
Bakers and bakeries - Germany	97835	42
Ballistics:		
exterior - yaw	97653	195
underwater	66213s	126
Balloons - stress analysis - Gt. Brit	97737	98
Bark - uses	98105	84
Batteries - manufacture - Germany	97512	42
see also Cells		
Beams:		
box	97694	130
elasticity	96929	58
stress analysis	98565	239
buckling	96935	59
cantilever	97074	58
	97204	129
	97699	135
	98035	129
design	98716	240
Russian	96957	190
free	98035	129
steel - bending test	98532	187
strength	97025	58
stress analysis	97311	60
	98035	129
	98532	187
	98716	240
stresses	98628	242
Bearings:		
anti-friction	98323	173
erosion	97555	52
glass	98078	134
journal	97701	136
roller see Roller bearings		
sleeve - tests	97555	52
Belts, conveyor - manufacture - Germany	97019	99
Benzene:		
chloro - production - Germany	70058t9	109
desulfurization - Russia	97329t4	14
nitro -		
explosive properties	97750	169
reduction	97500	111
production - Germany	97739	167
Benzene - Continued		
reactions	97750	169
recovery -		
Russia	97329t	13
	97329t2	13
	97329t3	13
	97329t5	14
Benzenearsonic acid:		
compounds - Germany	32536t24	31
	32536t46	2
Germany	32536t48	31
Benzidine - production	97500	111
Benzil - use as impregnating agent	98509	192
Benzophenone, thio, p,p'-bis-dimethylamino	97048	6
Berg- und Hüttenwerke A. G., Ibbenburen Mine, Ger	97343	20
Bergdorfer Eisenwerk A. G., Hamburg, Ger	97516	43
Beryllium:		
oxides - tests	97813	124
properties	96762	237
	96999	179
toxicity	96765	236
Bessemer converters - Germany	55979s	23
Beverages - manufacture - Germany	97835	42
Binoculars - maintenance and repair	97536	126
Biological chemistry:		
research - Germany	85037	7
	85039	7
tests - Gt. Brit	97830	175
Biology - Germany	85049	47
	85050	47
	85052	48
Biophysics - Germany	85051	142
Blades:		
air flow - Germany	97163	138
	97165	196
ceramic	98123	123
Blasa wood	98099	84
Blast, air - shock waves	98829	232
Blood:		
circulation	97372	86
effects of x-ray	97972	120
Bochumer Verein für Gussstahlfabrikation A. G., Bochum, Ger	97081	50
Boehringer, C. F. & Söhne G.m.b.H., Mannheim, Ger	97490	71
Boilers - corrosion - Gt. Brit	93972	141
Boiling points - apparatus - Sweden	97354	37
Bombs - damage see Damage, bomb		
Bombers:		
XB-36	98564	240
YB-36	98562	241
YB-36A	98562	241
Borax - Germany	97196	67
Boric acid - Germany	97196	67
Borides - metallurgy - Germany	96793	227

	PB	Page
Borohydrides	97123	23
	97123s	209
Boron:		
atomic weight	97419	57
carbide -		
uses	98127	124
Germany	98171	230
fluoride -		
compounds	97940	109
hydrides -		
physical properties	97769	78
preparation	97405	36
Bort - sintering -		
Germany	96827	225
Bosch, Robert G.m.b.H.,		
Stuttgart, Ger	97496	180
	97625	46
Bottoms, ship:		
coatings	98108	84
design	98145	126
Boundary layer	97407	132
control	97445	199
laminar	97088	126
	98577	223
flow	97346	127
Germany	23869t	27
	24009t	28
	98571	249
stability	97334	184
	98322	200
temperative distribution -		
Russia	98541	233
velocity distribution	97334	184
Russia	98541	233
Prandtl's equations	97346	127
theory	97149	245
	98578	250
turbulent - flow	97362	127
see also Aerodynamics; Airfoils; Wings - boundary layer		
Boxes:		
structural	97694	130
TR	98693	215
Brakes:		
aerodynamic - wind tunnel tests -		
Italy	97455	194
automatic -		
inventions	97242	148
dive see Brakes, aerodynamic		
Brazing -		
methods -		
Germany	97023	51
inventions	97265	149
see also Welding		
Bricks:		
industry - Germany	98270	118
refactory -		
Germany	97319	125
strength - Sweden	98673	230
Bridges:		
construction -		
Germany	98197	190
steel - Germany	98197	190
Briquetting	97773	72
Bronze:		
mechanical properties	97406	49
sintered -		
Australia	97090	24
physical properties -		
Australia	97794	92
Brucker & Zschetzsche, Minden,		
Ger	97197	41
Buffer solutions -		
Russia	97064	15
Building materials - manufacture -		
Germany	97084	84
Buildings:		
construction - cost -		
Sweden	97077	188
design - Gt. Brit	97719	129
research - Gt. Brit	97720	129
steel - Germany	97198	187
wood	98111	83
Buna see Rubber, buna		
Buna (Trade name)	97880	69
Buna S (Trade name)	97809	99
	97880	69
	98150	237
	98152	239
	98164	237
Buna S1 (Trade name)	98164	237
Buna S3 (Trade name)	98164	237
Buna S4 (Trade name)	98164	237
Butadiene:		
determination -		
Germany	98178	239
dimethyl - polymerization -		
Germany	96823	157
hydrogenation -		
Germany	97280	168
polymerization -		
Germany	97806	98
Butanal:		
analysis -		
Germany	70168t2	36
production -		
Germany	70063t10	68
Butane:		
dichloro - Germany	70058t6	109
fluorine derivatives -		
Germany	776t	70
Butanol:		
production -		
Germany	70063t9	68
tests - Germany	70168t3	67
Butter - manufacture -		
Germany	97516	43
	97517	43
γ-Butyrolactone -		
Germany	97366	37
Byrophites - antibiotic		
activity	97810	175

C

	PB	Page
Cables:		
coaxial - connectors -		
inventions	97232	145
electric - tropical		
deterioration	98656	162
Cadmium alloys -		
uses	97655	51
Calcium:		
carbonate - uses	98529	191
hydroxide -		
Germany	97078	181
salts - Germany	96813	219
Callium - toxicity	97295	86
Calorimetry	97296	15
Cameras:		
aerial	63657	183
gun - films	96661	232
high speed	97325	25
see also Films, photographic; Photography		
Cancer - causes	96994	175
Canning industry -		
Germany	97835	42
Capacitors:		
gang see Capacitors, variable		
variable - inventions	97230	144
Capillaries	98420	184
Capsules, aneroid	98354	214
Carbides, synthetic -		
production -		
Germany	97195	94
Carbohydrates - physiological		
effects	98256	217
Carbon:		
alloys	97472	50
bisulfide see Carbon disulfide		
black - use in synthetic		
rubber production -		
Germany	97809	99
determination -		
Russia	97069	7
dioxide, solid - uses -		
Germany	97501	42
disulfide -		
chlorination -		
Russia	97067	6
production -		
Germany	70418t	110
isotopes	98224	165
monoxide -		
chemical properties -		
Germany	97524	45
hydrogen - synthesis -		
Germany	97368	39
physiological		
effects	97448	226
production -		
Germany	97486	69
reactions -		
Germany	97016	38
tetrachloride -		
preparation -		
Russia	97067	6
production	97005	156
Carbonylation -		
Germany	97524	45
Carburetors:		
aircraft -		
design	97402	198
tests	98720	248
P63 A-9	98720	248
tests	98350	198
Carotene - determination	98265	115
Carrots, dehydrated	98246	216
	98247	217
Cascades (aerodynamics)	97323	197
	97552	46
	98321	199
	98577	223
	98943	224
Case hardening - nitriding		
process	98438	223
Castings -		
Germany	84559t5	150
see also Die castings; Metallurgy; and under name of metal		
Catalysts:		
aluminum silicate -		
Russia	97749	167
heterogeneous -		
Sweden	97648	91
hydrogenation	96898	89
	97193	51
iron - Germany	97330t	39
	97330t2	38
metal - Sweden	97648	91
Catarrh - vaccines -		
Germany	32536t22	2
Caterpillars	97235	145

	PB	Page
Cathodes - inventions..	97231	144
Cavitation tests.....	66219s	126
Cavities, air.....	66219s	126
Cells -		
dry - patents -		
Germany.....	97053	147
see also Batteries; and under name of chemical		
Cellulose.....	7416s2	26
	7416s3	27
	7416s4	27
	7416s5	27
absorption spectra....	98613	190
acetate.....	98654	152
solvents.....	98668	204
tests.....	98443	206
derivatives -		
absorption spectra...	98613	190
research.....	98828	231
nitrates see Nitrocellulose		
research.....	97705	68
	97706	69
	98828	231
saccharification.....	97425	70
swelling.....	74235t5	131
triacetate - uses -		
Germany.....	97194	60
wood.....	98096	83
-Cellulose - determination -		
Germany.....	82155t3	110
Cements:		
bonding.....	98770	206
	98771	204
tests.....	98761	206
	98765	205
manufacture -		
Austria.....	98011	142
Gt. Brit.....	97396	124
metal/wood - tests....	98771	204
	98814	240
plastic.....	98757	205
	98770	206
	98771	204
tests.....	98761	206
	98765	205
S-3024-Y.....	98770	206
tests.....	98757	205
see also Adhesives; Glue		
Centrifugal force - physiological effects.....	97699	135
Ceramics:		
casting.....	97813	124
creep tests.....	94531s	53
dielectric properties..	98537	181
hign temperature.....	98087	124
industries.....	97515	180
Japan.....	97868	124
materials -		
conductivity - measurements.....	98294	180
metal bonding.....	97813	124
research -		
Germany.....	97646	182
semi-conducting.....	98294	180
thermal properties..	98123	123
	98125	124
	98126	125
	98127	124
steatite - Germany....	97496	180
temperature tests.....	94531s	53
Germany.....	97158	180
tensile properties.....	94531s	53
turbine blades see Blades, ceramic		
uses - Germany.....	97496	180
see also Clay; Glass		
Cereals - manufacture -		
Germany.....	97835	42
Charcoal.....	97773	72
activated - uses.....	98507	158
research.....	98008	115
see also Carbon		
Charges, electrostatic -		
Germany.....	97384	39
Cheese - manufacture.	98514	163
Chemical:		
compounds, organic -		
hydrogenation.....	96865	5
identification -		
Germany.....	97514	111
synthesis.....	98224	165
industries -		
Germany.....	97486	69
production -		
Germany.....	97490	71
research - Gt. Brit..	97831	110
	98020	110
warfare agents -		
toxicity.....	97056	176
Chemische Werke		
Albert, Bieberick,		
Ger.....	97520	33
Hüls G.m.b.H., Marl,		
Ger.....	98575	187
Chemistry:		
analytic.....	96865	5
industrial - research -		
Germany.....	98558	157
inorganic -		
Germany.....	85042	6
medical and pharmaceutical -		
Germany.....	97428	176
organic -		
research -		
Germany.....	85025	6
	85040	7
	85041	7
synthesis.....	98182	158
Chemotherapy -		
Germany.....	85033	49
	97435	174
Chicago Blue RW (Trade name).....	98883	204
Chloamide preparation:		
S-273.....	98539	158
S-366.....	98539	158
S-436.....	98539	158
Chlorine trifluoride production -		
Germany.....	97917	111
Chlorophyll.....	95957	139
Chocolate - manufacture -		
Germany.....	97835	42
Cholera, avian - vaccine -		
Germany.....	32536t34	32
Chymotrypsin.....	97804	176
Circuits:		
electric -		
breakers -		
inventions.....	97238	147
tests.....	97237	145
electronic.....	97212	9
	97256	146
filter see Filters		
high frequency -		
inventions.....	97244	145
	97252	145
mixer.....	98054	112
oscillator see Circuits, resonant		
pulse - inventions.....	97228	144
rectifier see Rectifiers		
Circuits - Continued		
resonant -		
Germany.....	97087	10
trigger.....	98367	170
	98694	213
Clay:		
analysis.....	97745	94
bleaching.....	97745	94
products -		
lamination.....	96780	180
tests.....	97745	94
see also Ceramics		
Clocks - patents -		
Germany.....	85026	151
Clothing:		
arctic.....	96894	1
	98360	203
flying - insulation..	97373	1
impregnated -		
tests.....	98529	191
tests.....	97033	1
see also Fabrics; and articles of clothing by name		
Cloud chambers.....	96963	236
CO_2 see Carbon dioxide		
Coal:		
cleaning - Germany.	96840	219
mines and mining -		
Germany.....	97343	20
	97993	166
machinery -		
Germany.....	97993	166
Netherlands.....	97993	166
operation -		
Germany.....	97343	20
pulverization -		
Germany.....	97280	168
tar products - preparation -		
Germany.....	97341	44
washing -		
Germany.....	96840	219
Coatings:		
anodic - tests.....	98089	154
corrosion resistant.....	98595	208
	98669	207
	98762	208
	98763	208
	98804	207
electrical -		
Germany.....	23360s	12
protective -		
Gt. Brit.....	98394	155
tests.....	98074	154
	98665	206
see also Greases; Lacquers; Lubricants; Lubricating oils; Paints; Varnishes		
resin - tests.....	97956	245
see also Corrosion-prevention; Films; and subdivision coatings under material by name		
Cobalt:		
alloys.....	97190	23
	98126	125
isotopes.....	96987	236
standardization.....	97410	57
Cocks, drain -		
tests.....	97580	118
Coffer-dams - construction -		
Sweden.....	98070	189
Coils, radio frequency.....	98750	213
Colchicine -		
chemistry.....	98748	209

	PB	Page
Colds - vaccines - Germany	32536t23	2
Colors:		
luminous - Germany	96657	154
photography see Photography, color		
vision - tests	97101	24
Combustion:		
chambers - liners	98939	251
research	98039	118
theory	97159	251
	97567	45
Committee for Azo Dyes, I. G. Farbenindustrie see AKO		
Committee for Plastics, I. G. Farbenindustrie see KUKO		
Communications:		
airborne - equipment	98345	159
electrical - Germany	97527	39
receiving unit -		
E 52a	97130	8
E 52b	97130	8
systems	97057	8
	97270	146
control -		
NA-108	97057	8
NS-343	97057	8
noise reduction	98598	211
Compasses, aircraft - compensators	97533	81
Compensation:		
altitude	97402	198
optical	97325	25
Compounds:		
rust preventive	98762	208
	98763	208
viscosity	97765	72
see also Coatings; Corrosion		
sealing - tests	98075	154
Compressible flow see Flow, compressible		
Compression:		
apparatus	96934	59
	96935	59
research	97206	63
tests	97114	23
Compressors:		
axial -		
blades	98577	223
Germany	98347	172
research	98891	250
blades - aerodynamics	97699	135
centrifugal	98327	174
performance	97549	47
high pressure	96899	20
	98425	155
Computers:		
electrical	98367	170
mathematical	98678	222
Concrete:		
limerock	97628	93
moisture effects	97627	94
thermal conductivity	97627	94
reinforced - bibliography	98637	221
Condensers:		
electric see Capacitors		
radio see Capacitors		
Conductors:		
radiation resistance	98596	214
semi - Germany	97061	42
Confectionery - manufacture - Germany	97835	42
Coniferae - identification	97630	84
Connectors, electric - inventions	97264	146
	97996	145
Consciousness	97032	86
Contacts, electric:		
materials	98677	215
research - Germany	97922	114
Containers:		
fuel see Tanks, fuel		
wood	98098	84
Contax lenses (Trade name)	96918	25
Continental Gummiwerke A. G., Hanover, Ger	97019	99
Control(s):		
automatic	97027	63
electronic	97670	113
fire see Fire control		
instruments - patents - Germany	85026	151
remote see Remote control		
surface see also Ailerons; Elevators, aircraft; Rudders, aircraft; Tail surfaces		
Converters, contact - circuits - Germany	98206	114
Coolants:		
engine - tests	98904	224
see also Refrigerants		
Copper - recovery - patents - Germany	70147t	149
Corn	98264	115
Corrosion:		
prevention	97765	72
	98918	227
resistance	98753	228
	98777	238
see also subdivision Corrosion under metals by name		
Cotton	16390	27
industry - Germany	97834	60
Couplers - inventions	97222	146
Couplings:		
adjustable - inventions	97260	147
mechanical - inventions	97999	148
Crankcases - tests	98450	225
Crankshafts	98438	223
Crops - conservation - Germany	98274	115
Croton aldehyde - derivatives - Germany	33451t	33
Crotonic acid - polymerization - Germany	33451t	33
Crystallography - Sweden	97647	89
Crystals:		
lattices	98190	229
structure	98190	229
Cuprammonium process	7416s2	26
	7416s3	27
	7416s4	27
	7416s5	27
Cuprammonium process - Continued		
patents - Germany	70147t	149
Currents, electric:		
direct - transmission - Germany	97385	41
high voltage - Germany	97385	41
Cutters - Sweden	98067	119
Cutting tools see Tools, cutting		
Cyanamide - production - Japan	98486	157
Cyclohexane -		
oxidation	98425	155
Germany	576t	70
Cyclohexanol - preparation - Germany	576t	70
Cyclohexanone - preparation - Germany	576t	70
Cyclohexene - oxidation	98425	155
Cylinders:		
compression tests	98645	248
cooling	97108	135
	98852	224
elliptic	97075	103
stresses	97624	52
tests	98845	248
XH-2470	98852	224
Cytochrome c	97478	48
Cytochromes	97029	3
	97038	3

D

	PB	Page
Dairies and dairying - Germany	97516	43
	97835	42
Damage, bomb - ships - Germany	89610	253
Damping derivatives - stability	97315	194
	97347	62
	97397	132
	97550	131
	97553	133
Dams - construction	98502	190
	98503	190
	98505	190
	98671	190
Gt. Brit	97396	124
Sweden	98069	188
DB 3 reagent	98536	155
DDT - spectrographic analysis	97842	204
Deckel, Friedrich, Munich, Ger	97625	46
Demodulation	98332	160
Demodulators	97240	81
Detection - infrared see Infrared detection		
Detectors, crystal	98397	171
Detergents - production - Germany	70183t3	4
Deuterons - cross section - measurements	96988	237
Deutsche Akademie der Luftfahrtforschung, Berlin	97746	169
Deutsche Asphalt A. G., Eschenhausen, Ger	97017	188
Deutsche Edelstahlwerke A. G., Krefeld, Ger	97081	50

	PB	Page
Deutsche Fettsäure-Werke G.m.b.H., Witten, Ger.	97484	111
Deutsche Forschungsanstalt für Luftfahrt E.V., Braunschweig, Ger.	97774	167
Deutsche Gold- und Silberscheideanstalt A.G., Frankfurt am Main, Ger.	97196	67
	97505	61
Deutsche Steinzeugwarenfabrik, Friedrichfeld, Ger.	97515	180
Diamond(s):		
industrial - Germany	98171	230
powders -		
manufacture - Germany	98171	230
purification - Germany	96589	94
Diana Werk, Bettenhausen, Ger.	97919	116
Die(s):		
casting -		
Germany	97113	21
Mahle type D	97113	21
see also Castings		
see also Tools		
Dielectrics:		
constants	98537	181
fluid - constants	98537	181
losses	98537	181
research	98537	181
	98799	216
	98810	215
Diesel:		
engines see Engines, diesel		
fuels see Fuels, diesel		
Diffraction - theory	97722	97
Diffusers:		
subsonic	97450	197
supersonic	97450	197
Diffusion:		
constant	97335	51
thermal	98545	235
Dimethylisopropyl acetic acid - Germany	770t	69
Diols see Glycols		
Disks - stresses	97893	119
	98925	248
Dismulgan VII	811t	71
Dispersions - preparation	98810	215
Displays, three dimensional	97713	141
Dive brakes see Brakes, aerodynamic		
Dopes, cellulose nitrate	98594s	207
Douglas fir	98106	84
Dowmetal see Magnesium alloys		
Downwash (aerodynamics) - calculations	97307	193
	97422	199
Drag:		
measurements	66213s	126
profile - tables	97632	192
Drawing - resuscitation	97448	226
Dri Seal no. 940 (Trade name)	98753	228
Drills, ice - tests	97579	174
Drops, liquid - evaporation	97734	78
Druckzerseter G.m.b.H., Wanne Eikel, Ger.	97021	38
Drugs, digitaloid -		
Germany	97426	31
	97427	176
for specific chemicals see name of chemical e.g. Arsenic compounds		
Dry:		
batteries see Cells, dry		
cells see Cells, dry		
ice see Carbon dioxide, solid		
Duck (textile) - deterioration resistance	98753	228
Ducts, impulsive - Germany	98134	115
Duralumin - deformation	97191r	104
Dürener Metallwerke A. G., Düren, Ger.	97085	42
Dust - removal - Austria	98011	142
Dyes:		
and dyeing -		
chemistry - Germany	70426t5	32
Germany	74026t12	107
	74027t	107
	74027t2	107
physiological effects	97447	49
azo - manufacture - Germany	98882	204
	98883	204
	98884	203
	98885	203
fluorescent	96891	4
	97404	38
	98490	203
Germany	98213	108
ice see Dyes, azo		
manufacture - Germany	25626t5	33
naphthol AS	70426t5	32
Dynamics, gas	97659	233
Dynamit A. G., Schlebusch, Ger.	97668	70
Dynamit A. G., Troisdorf, Ger.	97521	33
	97852	108
Dysentery:		
bacillary - vaccines	97479	175
	97480	175
vaccines	97970	120

E

	PB	Page
Earths, rare - thorium content	98480	229
Echo - ranging see Sonar		
Edible fats see Fats, edible		
Eggs:		
albumins - substitutes - Germany	97835	42
substitutes - Germany	97835	42
Ehrit (resins-bonded board)	97084	84
Ehrit (sawdust-cement board)	97084	84
Elasticity - stability	98557	189
Electric:		
cables see Cables, electric		
equipment - Germany	23360s	12
Electric - Continued		
industries	97626	42
Germany	23360s	12
instruments see Instruments, electric		
lines - capacitance	98040	115
power -		
Germany	97392	41
production	98588	162
transmission	74370s	11
shock	98040	115
Electrical:		
equipment - Sweden	97339	253
measurements	96914	127
	96916	127
Electricity - training manuals - Canada	97121	12
Electroacoustics - Germany	97104	183
Electrodes	97227	145
carbon - Germany	96840	219
steel	97457	41
Electrolytes - diffusion	98416	209
Electromagnetism - theory - Germany	93334	11
Electrometers	92735	170
Electronic(s):		
Canada	97120	9
devices	97670	113
inventions	97226	146
diffraction patterns	27096	24
	97702	97
equipment	98487	162
Germany	85034	9
metals - fatigue tests - Germany	96185	198
tubes see Vacuum tubes		
Electrostatics - Germany	97384	39
Eletherm Werke, Remscheid, Ger.	97081	50
Elevators, aircraft - deflection	94449	244
Elka Werke A. G., Hamburg, Ger.	97919	116
Employment - Germany	23360s	12
Emulsifiers	98002	112
Emulsions	98002	112
Engines(s):		
aircraft -		
air cooling	92262	133
	97349	135
altitude effects	97892	198
carburetors see Carburetors		
combustion	98646	249
cooling	97108	135
	97117	65
	97577	198
	97892	198
cylinders	98646	249
heads	97577	198
temperature	98857	248
detonation	98852	224
	98857	248
efficiency see Engines, aircraft - performance		
exhaust see Exhaust		
fuel -		
flow	96953	136
fuels see Fuels, aviation		

	PB	Page
Engine(s) - Continued		
aircraft - Continued		
ignition systems.....	96900	65
	96955	25
installation.....	92259	133
knocking.....	96900	65
L-5.....	98350	198
lubricating oils.....	97310	44
	97314	46
manufacture - Germany.....	97465	197
mounts.....	98073	199
mufflers.....	97218	134
performance.....	97742	77
	98646	249
	98857	248
pressure - prediction.....	97349	135
temperature effects..	98857	248
tests.....	97099	29
vibration.....	98073	199
see also Jet engines		
automotive - fuels - Germany.....	95133	167
axial.....	98924	251
closed cycle - Switzerland.....	97052	46
combustion.....	97250	148
cylinder assembly - XR-7755.....	98845	248
diesel.....	97136s14t	122
fuels - Germany....	97739	167
	98210	166
lubricating oils.....	97733	77
electric - pressure....	96928	16
gasoline - lubricants.....	97733	77
jet see Jet engines		
Otto - fuels - Germany.....	97739	167
producer gas - Germany.....	97018	19
reciprocating -		
equipment.....	97402	198
heat transference.....	97729	224
	98852	224
maintenance - Gt. Brit.....	98394	155
performance.....	98818	223
	98845	248
turbine propeller.....	97163	138
	97323	197
	98924	251
Germany.....	97165	196
	98784	225
	98830	225
two-cycle.....	98818	223
Germany.....	98138	173
XI-2220.....	98438	223
	98450	225
Engineering:		
electrical - Canada.....	97120	9
research - Germany.....	97527	39
	97922	114
tools - Germany.....	98273	119
Enzymes - proteolytic action.....	97804	176
Ephedrine hydrochloride - Germany.....	32536t41	3
Epidemiology - Germany.....	85046	48
Equations, polynomial..	96927	126
Erugon (testicle hormone).....	32536t17	2
Ethane, chloro.....	98507	158
Ethers, polyvinyl - uses - Germany.....	97365	36
Ethyl alcohol - combustion.....	97744	75
-Ethyl hexanol - Germany.....	811t	71
Ethylamine - production - Germany.....	70063t7	68
Ethylene:		
energy levels.....	98421	168
oxide -		
analysis - Germany.	98623	208
explosions - Germany.....	96799	231
production - Germany.....	70063t8	68
production - Germany.....	97486	69
	98603	210
Ethynylation - Germany.....	97524	45
Everdur (Trade name).....	96922	54
Exhaust:		
systems.....	98818	223
valves see Valves, exhaust		
Explosion(s):		
measurements.....	96926	54
measuring equipment.....	98901	232
propagation.....	81494	233
tests.....	97685	40
underwater - damage.....	96922	54
waves see Shock waves		
Explosives:		
chemical properties.....	98362	182
	98363	182
detonation theory.....	98364	183
fire fighting - Gt. Brit.....	97721	140
physical properties..	98362	182
	98363	182
Japan.....	98812	231
Extrusion presses - patents.....	98121s2	148

F

	PB	Page
Fabrics:		
aircraft - fungus proofing.....	98592	191
cotton -		
drying.....	97276	61
water absorption...	97276	61
impregnated.....	98509	192
nylon - dyeing.....	96891	4
see also Duck (textile); Textiles		
Fabrilite (Trade name).....	98113	85
Face - protection.....	98360	203
Falling.....	96919	138
Fanal Bremen blue B (Trade name).....	70135t13	32
Fanal Bremen BTX supra (Trade name).....	70135t13	32
Fanal violet RM (Trade name).....	70135t11	32
Fans, axial flow.....	98891	250
design.....	98891	250
Fast red salt GG (Trade name).....	74027t	107
Fast scarlet salt GG conc (Trade name).....	74027t2	107
Fast scarlet salt R conc (Trade name)...	74026t12	107
Fat-soluble blue Z (Trade name)...	32532t	32
Fats, edible:		
Germany.....	97835	42
	98092	116
synthetic - Germany.....	98092	116
Fatty acids:		
nitriles - Germany.....	70058t10	109
production - Germany.....	97484	111
Ferrite - magnetic properties - Japan.....	98800	230
Ferrocynanides.....	96987	236
Fiberglas.....	16390	27
Germany.....	97880	69
manufacture - Germany.....	70186s	36
spinning - Germany.....	70186s	36
thermal properties.....	98699	230
see also Plastics, laminated		
Fibers.....	16390	27
artificial - Germany.....	7416s2	26
	7416s3	27
	7416s4	27
	7416s5	27
cellulose - polymerization - Germany.....	74235t3	131
staple - machinery - Germany.....	94846	26
viscose - manufacture - patents - Germany.....	70147t2	151
	70147t3	151
Field glasses - maintenance and repair.....	97536	126
see also Binoculars		
Films:		
cellulose - Germany.....	97194	60
cobalt - magnetic properties.....	97796	95
gun camera - 16-mm.....	96661	232
lubricant.....	97763	166
motion picture -		
16-mm.....	96661	232
35-mm.....	96661	232
see also Motion pictures		
(photography) - processing.....	63657s2	183
	96661	232
Canada.....	98283	125
sensitivity.....	96763	237
see also Cameras; Photography		
Filters:		
air - tests.....	98349	171
coaxial.....	97234	144
electric - inventions.....	97244	145
high frequency - inventions.....	97254	144
low pass - inventions.....	97234	144
magnetic.....	97414	40
radio frequency - inventions.....	97253	144
Fire:		
control - aircraft.....	97125	194

	PB	Page
Fire - Continued		
control - Continued		
equipment -		
Germany	92113	142
	96888	140
winterizing -		
Germany	92114	143
research - Gt.		
Brit	97833	140
crackers - manufacture -		
Germany	97482	54
fighting -		
equipment - patents -		
Germany	85030	151
Germany	96888	140
Gt. Brit	97721	140
prevention - houses -		
Gt. Brit	97717	129
protection - materials -		
Gt. Brit	96950	188
starters	97272	8
Fischer-Tropsch		
process	96898	89
	97083	35
	97193	51
Fish - processing -		
Germany	97835	42
machines -		
Germany	97321	47
	97522	42
Fishing industry -		
Gt. Brit	97492	43
Flameproofing - tests -		
Gt. Brit	93974	142
Flaps, full span	97662	194
Flares:		
parachute -		
manufacture	97181	54
T10E2	97181	54
Flashlights -		
inventions	97237	145
	97246	145
	97247	145
Flavadin solution		
(Trade name)	32536t18	31
Flax:		
industry - Sweden	95630	26
tensile strength -		
Sweden	98155	130
Flight:		
instruments see Instruments, aeronautical		
measurements	98817	247
Flooring - Germany	97017	188
Flotation - Germany	96840	219
Flow:		
air see Air flow		
axial	98943	224
compressible	97035	137
	97036	137
	97145	28
	98317	248
	98321	199
	98327	174
	98379	185
	98380	185
	98381	185
	98382	185
	98580	250
Germany	24009t	28
	36465t	127
measurement	97307	193
Germany	96956	61
Russia	97460	137
theory	97075	103
	97638	79
	97695	186
	98943	224

	PB	Page
Flow - Continued		
electric - testing equipment -		
Gt. Brit	97138	11
incompressible -		
Germany	98571	249
measurements	97693	195
jet mixing	97316	132
	97391	55
	97434	65
	98580	250
laminar	97334	184
	97407	132
	97545	132
	97633	192
	98897	222
Germany	98571	249
theory	97149	245
	98322	200
	98578	250
measurements	98313	200
	98897	222
Germany	61505t	250
	97163	138
	97165	196
Gt. Brit	97138	11
Russia	97452	200
meters see Meters, flow		
one dimensional	97390	56
	98378	185
subsonic	96897	62
	97323	197
	97395	193
	97450	197
Germany	96956	61
	97890	201
supersonic	96932	28
	97179	137
	97189	138
	97315	194
	97316	132
	97450	197
	97458	199
	97652	195
	98377	185
	98713	234
Germany	36465t	127
	98391	128
Russia	97452	200
	97460	137
theory -		
Germany	97890	201
three diemnsional	97189	138
see also Wing theory		
turbulent	97316	132
	97407	132
	97545	132
measurement	97362	127
	97389	79
two dimensional	97379	55
	97395	193
	97445	199
	97458	199
	98321	199
	98327	174
	98390	235
Germany	23874t	28
	36465t	127
	98391	128
theory	97638	79
ultrasonic	96877	233
Fluids - resistance	96919	138
Fluorescence -		
Germany	98213	108
Fluorides	97012	156
Fluorine:		
colorimetry	97982	177
organic compounds -		
Germany	776t	70

	PB	Page
Fluorine - Continued		
preparation	96979	156
	97012	156
production	97005	156
Fluorocarbons:		
analysis	98424	158
physical proper-		
ties	97563	43
preparation	96979	156
	97005	156
	97012	156
Flutter:		
analysis	97697	196
	97699	135
see also Wings - flutter		
Fly paper - manufacture -		
Germany	97387	140
Flying boats:		
hulls - planing		
surfaces	97092	101
hydrodynamics	92797	29
see also Seaplanes		
Foaming agents	97310	44
Foams, chemical	97308	38
Food:		
bacteriology	98258	218
canned - steriliza-		
tion	98259	216
dehydrated -		
Germany	97835	42
deterioration	98246	216
	98247	217
frozen - Germany	97501	42
	97835	42
machinery -		
Germany	97835	42
preparation		
machinery	97919	116
preservation -		
Germany	97501	42
rations, emergency	98263	116
research	98263	116
	98264	115
	98265	115
	98266	115
	98267	116
Germany	98091	116
	98092	116
	98093	116
Footgear, heated -		
tests	97273	1
Forests and forestry -		
Gt. Brit	97353	83
Formaldehyde:		
Germany	70168t5	36
	97367	36
production -		
Germany	70058t4	110
	97523	35
Fortuna Werke Speziab-		
maschinen-Fabrik A. G.,		
Stuttgart, Ger.	97625	46
Founderies - machines - patents -		
Germany	97369	148
Frequency:		
distortion	98054	112
measurements	98308	170
	98483	197
modulation see Radio,		
frequency modulation		
Friction - research	97555	52
Fritz butter		
process	97517	43
Fruit:		
canned -		
Germany	97835	42
dehydrated - deteriora-		
tion	98253	216

	PB	Page
Fruit - Continued		
frozen see Food, frozen		
Fuels:		
air fuel ratio	98701	221
aircraft engine see Fuels, aviation		
anti-knock - tests	97755	75
aromatic	97731	73
aviation -		
28-R	92261	44
additives	97765	72
Germany	98690	220
altitude effect	97820	105
AN-F-33	98845	248
components	97755	75
flow	97820	105
Germany	97160	252
ignition	97755	75
knocking	92261	44
	97742	77
lead content	97742	77
research	97752	76
stability -		
Germany	98690	220
storage -		
Germany	98690	220
temperature	97768	74
tests	97768	74
	98845	248
thermodynamics	98039	118
vaporization	98711	219
volatibility	97742	77
	97768	74
catalysts	98682	220
diesel - performance -		
Germany	97739	167
gages see Gages, fuel		
jet -		
JP-2	97758	71
PPF-45-6	97731	73
PPF-45-7	97731	73
PPF-45-25	97731	73
jet engine see Jet engines - fuels		
liquid -		
analysis	97561	45
tests - Germany	97738	168
vaporization	98711	219
oil see Oil fuel		
physical properties	97758	71
pulverized - research -		
Germany	97735	166
pumps see Pumps, fuel		
research -		
Germany	96797	220
rocket see Rocket motors - fuels		
solid -		
combustion -		
Austria	98011	142
gasification -		
Germany	97778	168
tanks see Tanks, fuel		
vaporization	98711	219
see also Coal; Oils		
Fungi:		
growth - bibliography	98015	141
research	98095	83
Wisconsin	97786	139
Fungicides:		
evaluation	98491	152
see also names of specific fungicides		
Fungus proofing	98074	154
bibliography	98015	141
Furnaces:		
electric - use of oxygen -		
Austria	98011	142
Furnaces - Continued		
electric arc -		
Germany	82164t	114
sintering	97793	92
vacuum distillation	97793	92
Fuselages:		
analysis	97594	133
stress analysis	97653	195
vibration	97337	64
Fuzes:		
acoustic -		
Germany	23360s	12
safety - Germany	97197	41

G

	PB	Page
Gages:		
blast	98077	170
fuel	97820	105
strain - calibration	98839	244
Gallbladder - calculi	97973	121
Gallium:		
chemistry	98426	157
metabolism	97292	86
radioactive	97963	120
	97964	120
Gamma rays:		
measurements	92735	170
spectroscopy	97938	233
Gas(es):		
compresses	97100	64
Germany	97018	19
compressibility	97659	233
discharge	97611	56
flow -		
compression shocks	96877	233
Germany	36465t	127
measurements	97695	186
theory	97390	56
see also Air flow		
liquified -		
sound absorption	97709	184
storage	98718	220
transportation	98718	220
masks see Respirators		
physics -		
Germany	85035	184
spectrographic analysis	97703	95
	97703s	96
	97703s2	95
	97703s3	95
	97708	96
	97777	96
turbines see Turbines, gas		
Gaskets, synthetic rubber	98831	238
Gasoline:		
oxygen mixtures - reaction products	97792	79
refining -		
Germany	46708t	45
	97333	166
tests - Germany	96828	221
Gauges see Gages		
Geiger counters	97797	80
Geisler process (coal cleaning)	96840	219
Gelatine:		
edible - Germany	97835	42
manufacture	97487	111
Generators:		
acetylene - tests	97557	47
alternating current	98304	215
electric -		
Germany	97392	41
Generators - Continued		
noise -		
construction	97415	41
design	97415	41
pulse -		
Germany	98710	215
inventions	97223	146
	97243	145
saw-tooth -		
inventions	97257	145
smoke	98501	183
generator - E15	98501	183
South Africa	97361	67
sound see Generators, noise		
sweep - inventions	97233	146
tests	97676	114
see also Power plants		
Geodesy -		
Germany	85044	186
Geography -		
Germany	85045	143
Girders see Beams		
Glasfaser Gesellschaft m.b.H., Düsseldorf,		
Ger	97880	69
Glass:		
dielectric properties	98537	181
fiber see Fiberglas		
industry -		
Germany	97199	93
laminated	98348	181
optical - specifications	98351	182
printing - photographic	98781	232
Gleitmittel K (Trade name)	96813	219
Gleitmittel Z (Trade name)	96813	219
Gleitmittell M (Trade name)	96813	219
Gliders:		
Li P 13-a VI	97164	245
pilotless -		
Germany	97164	245
Glue:		
tests	98081	154
see also Adhesives		
Glycerine	97308	38
Glycol - Germany	97880	69
Granium - surgery	97293	87
Greases:		
chemical analysis	97785	73
G 1-6 to G 1-13	97785	73
tests	97785	73
viscosity	97748	72
see also Coatings, protective; Fats; Lubricants, Lubricating oils; Oils		
Greenhouses - Gt. Brit	97383	129
Greens theorem (exterior ballistics)	97307	193
Griesheimer Autogen Ver Kaufs G.m.b.H., Griesheimer,		
Ger	97133	173
Ground waves:		
measurements	97375	9
theory	19799r	161
Guns:		
aircraft - firing tests -		
Germany	97156	53
breech mechanisms -		
stresses	98880	231
cameras see Cameras, gun		
self-propeller -		
Germany	97923	182
steel see Steel, gun		

	PB	Page
Guttasyn (Trade name)	97852	108
Gypsum:		
board - uses - Germany	98196	172
production - Germany	98196	172

H

	PB	Page
H see Mustard gas		
Hafnium - preparation	97954	93
Halogen compounds - determination - Russia	97069	7
Handgear, heated - tests	97273	1
Harburger Gummiwaren-fabrik, Phoenix A. G., Harburg, Ger	97019	99
HC1 see Hydrochloric acid		
HD see Mustard gas		
Heart - effects of drugs	97427	176
Germany	97426	31
Heat:		
exchangers - design	98612	234
radiant - research - Canada	92278r	189
transference	24009t	28
	97362	127
	97389	79
	97391	55
	97407	132
Germany	97729	224
transference see also Intercoolers		
Heaters, electric - Tests	97126	12
Heating - panel system - Canada	92278r	189
Height finders	98801	212
Heinkel & Co., Düsseldorf, Ger	97484	111
Helicopters:		
aerodynamics	97547	201
blades -		
autorotation	97696	195
stalling	97696	195
flight tests	97696	195
rotors -		
oscillation	97550	131
theory	97547	201
stability	97550	131
Heliogen blue B (Trade name)	25626t4	33
Helix pomatia	97425	70
Henkel & Cie., A. G., Düsseldorf, Ger	97196	67
Heraeus, W. C., G.m.b.H., Hanau, Ger	97505	61
Heraeus-Quarzglas G.m.b.H., Hanau, Ger	97496	180
Hermann Goering Werke, Salzgitter, Ger	97669	92
Hexahydrobenzene see Cyclohexane		
Hides and skins - treatment -		
France	97529	81
Germany	97529	81
see also Leather		
High frequencies:		
interference - elimination	97469	9
inventions	97266	146
High frequencies - Continued		
noise see Sound, high frequency		
oscillators see Oscillators, high frequency		
research	97375	9
sound see Sound, high frequency		
H_2O_2 see Hydrogen peroxide		
HÖ 1/127 (sizing agent)	70222t3	67
HÖ 1/169 (finishing agent)	70222t4	67
Hodographs	97638	79
Hoover dam	98671	190
Hormones:		
pituitary	32536t43	31
	32436t50	106
sex - preparation - Germany	32536t17	2
Hose, rocket - Blossom IV-A	98648	214
Houses:		
construction - Gt. Brit	97351	188
design - Gt. Brit	97717	129
heating - research - Canada	92278r	189
HS see Mustard gas		
Hulls:		
materials	97724	91
	97725	91
stresses	92797	29
	97207	102
tests	97092	101
	98199	122
Humidity, atmospheric	97100	64
Hydraulic:		
fluids - tests	97800	117
power equipment - tests	97578	174
Hydrides	98740	210
Hydrocarbons:		
analysis	97752	76
oxidation	98425	155
physical properties	97752	76
synthesis - Germany	97330t	39
	97330t2	38
	98743	228
Hydrochloric acid -		
diffusion	98416	209
see also Hydrogen chloride		
Hydrodynamics	66219s	126
	97207	102
	97456	193
Germany	85032	140
Hydrofluoric acid - production - Germany	97917	111
Hydrogen:		
chloride - absorption - Germany	720t	71
ion concentration - correction apparatus	97670	113
liquid - sound absorption	97709	184
peroxide -		
chemical properties	98187	210
decomposition	97602	167
handling	97678	117
	97783	76
	97787	73
	97802	117
Hydrogen - Continued		
peroxide - Continued		
physical properties	97783	76
	97787	73
	97942	117
	98187	210
South Africa	97357	37
stability	97802	117
storage	97678	117
	97783	76
	97787	73
	97802	117
synthesis	97770	75
uses	97802	117
Hydrolyzers	96923	17
Hydrophones - tests	85542	112
Hydroplanes see Seaplanes		
Hydroxylamine - analysis - Germany	70063t13	37
Hygiene - Germany	85006	139
	85031	48
	85046	48

I

	PB	Page
I. G. Farbenindustrie A. G.:		
acetaldehyde - uses	97364	37
alkinol - synthesis - flowsheet	97364	37
I. G. Farbenindustrie A. G., Bitterfeld, Ger.:		
magnesium - alloys - industry	97040	178
I. G. Farbenindustrie A. G., Gersthofen, Ger.:		
acetic acid, dimethyl isopropyl	770t	69
I. G. Farbenindustrie A. G., Griesheim, Ger.:		
indene - isolation	791t	70
I. G. Farbenindustrie A. G., Höchst, Ger.:		
aniline - hydrolysis	764t	70
butane - fluorine - derivatives	776t	70
chemicals - production	97490	71
croton aldehyde - derivatives	33451t	33
crotonic acid - polymerization	33451t	33
dyes, fluorescent	98213	108
flooring, jointless	97017	188
fluorescence	98213	108
fluorine - organic compounds	776t	70
mowilith CT	33451t	33
pharmaceuticals - production	97490	71
phenol - production	764t	70
m-phenylenediamine - hydrolysis	764t	70
precipitation, electro	97384	39
propane - fluorine - derivatives	776t	70
refrigerants	776t	70
resorcinol - production	764t	70
salvarsan	97488	32

	PB	Page
I. G. Farbenindustrie A. G., Höchst, Ger.: - Continued		
sulfuric acid - production	97851	111
textiles - dyes and dyeing - fluorescent pigments	98213	108
vanadium - catalysts	97851	111
vinyl acetate - polymerization	33451t	33
I. G. Farbenindustrie A. G., Leverkusen, Ger.:		
acids, methylene dithio	98149	108
benzidine - preparation	97500	111
buna S	97880	69
fiberglas	97880	69
formaldehyde - manufacture	97523	35
glycol	97880	69
hydrogen chloride - absorption	720t	71
Igelit PCU	97880	69
nitrobenzene - reduction	97500	111
Ozokerit Lunacera 10364	97880	69
phenols - manufacture	97523	35
phenols, synthetic - production	97853	110
phthallic anhydride - manufacture	97523	35
plasticizer 77	98149	108
plasticizers	97880	69
plastics	97880	69
plasticizers	98149	108
production	98149	108
Plastikator 88	98149	108
polyvinyl chloride - chlorination	97880	69
rubber, buna	97880	69
synthesis, organic	97154	5
tires, rubber - synthetic	97880	69
Trolitul EF/Z	97880	69
varnishes	97880	69
Vinnol H	97880	69
Vinnol HH	97880	69
I. G. Farbenindustrie A. G., Ludwigshafen, Ger.:		
acetone - production	97486	69
acetylene - chemistry	97524	45
production	97486	69
acrylates - synthesis	97016	38
aniline - production	97486	69
anthracene - production	97486	69
anthraquinone - production	97486	69
carbon monoxide - production	97486	69
$CO-H_2$ - synthesis	97368	39
ethylene - production	97486	69
gasoline - refining	97333	166
methane - production	97486	69
methanol - production	97486	69
phenol - production	97486	69
phthalic acid - production	98201	112
rubber, synthetic - vulcanization	97811	99
sulfuric acid - production	97851	111
I. G. Farbenindustrie A. G., Ludwigshafen, Ger.: - Continued		
vanadium - catalysts	97851	111
vinyl ethers - preparation	601t	70
wax industry	97083	35
I. G. Farbenindustrie A. G., Mainkur, Ger.:		
Dismulgan VII	811t	71
V-ethyl hexanol	811t	71
succinic acid - derivatives	811t	71
wetting agents	811t	71
I. G. Farbenindustrie A. G., Oppau, Ger.:		
acetone - production	97486	69
acetylene - production	97486	69
acrylic acid - manufacture	97180	36
aniline - production	97486	69
anthraquinone - production	97486	69
carbon monoxide - production	97486	69
ethylene - production	97486	69
methane - production	97486	69
methanol - production	97486	69
phenol - production	97486	69
I. G. Farbenindustrie A. G., Schkopau, Ger.:		
buna S	97809	99
	97880	69
carbon black	97809	99
fiberglas	97880	69
glycol	97880	69
Igelit PCU	97880	69
Ozokerit Lunacera 10364	97880	69
plasticizers	97880	69
plastics	97880	69
polyvinyl chloride - chlorination	97880	69
rubber, buna	97880	69
tires, rubber - synthetic	97880	69
Trolitul EF/Z	97880	69
varnishes	97880	69
Vinnol H	97880	69
Vinnol HH	97880	69
I. G. Farbenindustrie A. G., Uerdingen, Ger.:		
cyclohexane - oxidation	576t	70
cyclohexanol - preparation	576t	70
cyclohexanone - preparation	576t	70
Guttasyn	97852	108
plastics - welding	97852	108
plexiglas - welding	97852	108
resins	576t	70
Ice:		
colors see Dyes, azo formation	97116	62
Iconel X (alloy)	97290	21
Identification systems, personnel	97049	26
Igelit PCU (Trade name)	97880	69
	98151	238
Imbert-Generatoren G.m.b.H., Cologne, Ger.	97018	19
Impact - measurements	97207	102
Impedance:		
acoustic - measurements	98815	211
measurements	96914	127
Sweden	98071	112
Impregnants:		
preparation	98539	158
research	98762	208
	98763	208
tests	98664	228
Inconel	97740	90
properties	96909	23
Inconel B (Trade name)	97795	91
Inconel X (Trade name)	97795	91
Indene - isolation - Germany	791t	70
Indicator(s):		
air speed see Air speed indicators		
attack angle	97422	199
fuel see Gages, fuel pressure	97543	105
Induction systems - tests	98349	171
Industrial research - bibliography	98050s	141
Inertia	98035	129
Infections, parasitic	97962	120
Influenza - virus	97967	121
	97968	119
	97969	121
	97971	121
Infrared:		
apparatus - Germany	23360s	12
detection	98188	184
radiation	97704	113
research - Germany	97106	10
Insecticides:		
toxicity - South Africa	97358	37
see also Aerosols		
Insects, wood-boring	98101	84
Instruments:		
aeronautical	96933	18
	97467	134
coatings	98471	153
Germany	98817	247
patents - Italy	96961	147
performance	97554	64
electronic	92735	170
fire control	85712	114
measuring - Sweden	97340	55
see also instruments by name		
meteorological	96933	18
	97698	105
inventions	97225	147
optical - Germany	97615	55
Sweden	97340	55
see also instruments by name		
Insulating:		
materials	98762	208
	98763	208
cellulose derivatives - thermal ageing - Sweden	98064	172

	PB	Page
Insulating - Continued		
materials - Continued		
Germany	91239	143
	91242	143
plastics	97943	108
	98488	153
varnishes - production	98488	153
Insulation:		
electrical - materials	98799	216
thermal -		
buildings - Gt. Brit.	97719	129
gases, liquefied	98718	220
Insulin - production - Germany	32536t19	2
Intercoolers:		
tests	98349	171
see also Heat - transference		
Interference:		
electrical - elimination	97469	9
propeller	96931	65
radio see Radio interference		
Interferometers	97316	132
Germany	61505t	250
optical - Germany	97781	125
Intermediates - preparation - Germany	97857	107
Interphones - tests - Germany	98679	159
Iodine - standardization	97409	57
Ionospheric measurements - Gt. Brit	96951	8
Ions	96986	236
sources - Sweden	97647	89
Iron:		
alloys see Steel alloys		
and steel industry - Germany	97526	51
	97921	90
carbonyls - uses	97775	179
casting	98793	227
industries see Iron and steel industries		
manufacture - Germany	97921	90
patents - Germany	98369	148
ores - preparation - Germany	97669	92
powders -		
dielectric properties	97775	179
manufacture - Germany	97775	179
uses - Germany	98743	228
Irrigation	98502	190
	98503	190
	98505	190
Isocyanates:		
di - reactions	98889	239
preparation - Germany	97519	98
Isoprene - polymerization - Germany	98178	239
Isotopes:		
separation	96989	162
see also subdivision isotopes under chemical elements and metals by name		

J

	PB	Page
Jacks	98300	159
Jet(s):		
engines -		
aerodynamic	98128	250
	98317	248
combustion chambers	97450	197
	98037	250
	98926	251
components - tests	98128	250
cooling	98128	250
fuels	97758	71
	98724	220
temperature	97758	71
tests	97731	73
Canada	98778	252
viscosity	97758	71
installation - Germany	39113t	251
Junkers .004 (203)	97047	197
performance - Germany	97047	197
pressure	98037	250
turbo jet -		
combustion	96026	251
operation	97434	65
	98316	174
	98924	251
parts	98939	251
tests	92260	196
see also Turbines, gas		
see also Combustion chambers; Nozzles; Jet propulsion		
propulsion -		
research	98316	174
units -		
performance	97798	118
wind tunnel tests	97381	252
supersonic	97316	132
Joints:		
adhesive bonded	98798	242
tests	98761	206
	98814	240
riveted -		
strength	98540	241
tests	98548	242
	98563	229
	98766	243
welded -		
tensile tests	96921	130
tests	98563	229
Junkers-Flugzeu- und Motorenwerke, Motorenbauzweigwerk, Strassburg, Ger	97047	197

K

	PB	Page
Kaiser Wilhelm Institut für Bio-Physik, Frankfurt am Main, Ger	97087	10
Kaiser Wilhelm Institut für Eisenforschung, Düsseldorf, Ger	97378	51
Kaiser Wilhelm Institut für Kohlenforschung, Mülheim, Ger	96898	89
	97193	51
Kapok	16390	27
Kelvin Vibrograph (Trade name)	98122	171
Kerosene - recovery - Russia	97329t5	14
Knees - position	97299	63
Kommission für Azofarben, I. G. Farbenindustrie see AKO		
Krupp, Friedrich, A. G., Essen, Ger	96793	227
	97081	50
	97082	21
	97195	94
	97464	105
Krupp, Friedrich A. G., Widia Fabrik, Essen, Ger	97526	51
Krypton - production - Germany	97915	111
KUKO (Kunstoff-Kommission) report	33451t	33

L

	PB	Page
Laboratories:		
chemical -		
Gt. Brit	97831	110
safety precautions	97431	36
metallurgical	97848	90
Lacalcon (Trade name)	98001	106
Lacquers:		
drying	97940	109
	97941	109
resins - production - Germany	97520	33
tests	98651	208
see also Paints; Varnishes		
Lactoprene E. 170 (Trade name)	92078	187
Lactoprene E.V. (Trade name)	92079	187
Lagrange equations	97311	60
Lame's functions	19207t	56
Lamepon	98000	106
	98001	106
Laminar flow see Flow, laminar		
Laminated plastics see Plastics, laminated		
Lamp(s):		
black see Carbon black		
photoflood - inventions	97248	150
Landing gear:		
cross-wind	97544	131
design	97754	246
track	97754	246
Leather:		
fungus proofing - bibliography	98018	81
synthetic - preparation - Germany	97154	5
Leichtmetallwerk Rudolf Rautenbach G.m.b.H., Wernigerode, Ger	97040	178
Leipziger Leichtmetallwerk Rackwitz, Ger	97040	178
Lenses:		
optical -		
Germany	98932	232
see also Glass, optical		
photographic	63657s2	183
tests	96918	25
telescopic - Germany	97615	55
see also Glasses		
Leuna slagging-type gasification process	97778	168
Lewisite - toxicity	97056	176

	PB	Page
L.F.A. see Luftfahrtforschungs-anstalt Hermann Göring E.V., Brunschweig, Ger.		
Lichenin	97425	70
Lifesaving - patents - Germany	85030	151
Lift - measurement	97347	62
Light(s):		
flash see Flashlights		
interference - Germany	61505t	250
metals see Metals, light		
transmission - measurement	98629	234
see also Flares		
Lighting - Germany	96657	154
Lignat (cellulose-cement board)	97084	84
Lignin:		
chemistry	98096	83
	98102	82
products (chemical)	98481	172
Sweden	97094	19
Lignosulfonic acids - viscosity	98474	158
Lignova (wood waste board)	97084	84
Liners, iconel	98939	251
Linings, cylinder - coatings - Gt. Brit	98394	155
Lipoids	98244	218
	98246	216
	98247	217
Liquefiers, gas	98612	234
Liquids - physics - Germany	85035	184
Lithium:		
borohydrides - thermal properties	97732	74
thermal properties	97732	74
Lithol fast yellow GG extra (Trade name)	70135t12	32
Liver:		
physiology	97424	226
vitamin content	98266	115
Lubricants:		
friction tests - Germany	98687	220
low temperature	97748	72
properties	97746	169
research	97746	169
Germany	96797	220
	98687	220
	98708	221
solidification	97474	44
synthetic - research	97607	117
tests	97748	72
Germany	98708	221
viscosity	97748	72
France	96959	13
see also Coatings, protective; Greases; Lubricating oils; Lubrication; Oils		
Lubricating oils:		
effect of supersonic waves - Japan	97757	169
specifications	97733	77
tests	97763	166
	97800	117
equipment - Germany	97756	169
Japan	97757	169
viscosity	97814	169
WS-491	97800	117
see also Greases; Lubricants; Lubrication; Oils		
Lubrication:		
chemistry	97115	15
	97146	14
	97219	14
	97220	14
	97308	38
	97310	44
	97314	46
Germany	98708	221
research	98323	173
Luftfahrtforschungsanstalt Herman Göring, E. V., Braunschweig, Ger.	97165	196
Institut für Motoren-forschung	97735	166
Luftforschungsanstalt Herman Göring, E.V., Volkenrode, Ger.	23869t	27
	24009t	28
	97159	251
	97160	252
Luftfahrtforschungsanstalt München, E. V., Munich, Ger.	97738	168
Luftfahrtgerätewerk Hakenfelde G.m.b.H., Berlin	97464	105
Lumber - specifications	98111	83
Lungs:		
cancer	96994	175
diseases	97447	49
Lurgi Apparatebau G.m.b.H., Frankfurt am Main, Ger.	97384	39
	98276	156
Lurgi Gesellschaft für Chemie und Hüttenwesen m.b.H., Frankfurt am Main, Ger.	98276	156
Lurgi high pressure gasification process	97778	168

M

	PB	Page
Mach number	97348	137
effect	97206	63
	97315	194
	97337	64
	97347	62
	97395	193
	97407	132
	97459	134
	97553	133
Machine(s):		
brick cleaning - Germany	98270	118
calibrating	97543	105
die casting see Die casting machines		
loading - Germany	97020	20
parts - manufacture - patents - Germany	85029	151
rolling mill - Germany	90040	225
rotating - insulation	98488	153
shop practice	98587	174
spinning see Spinning machinery		
textile see Textile machines		
tools see Tools, machine		
Machinery:		
foundations - Germany	98135	173
Machinery - Continued		
transportation - Sweden	97151	46
Magnesia:		
tests	97813	124
uses	98127	124
Magnesium:		
alloys	97604	49
	97657	50
AZ 63	97812	89
bend tests	98568	227
casting	97812	89
chlorination	97812	89
Downmetal "O"	98568	227
extrusion	97929	123
Germany	97040	178
J-1 A	98526	179
J-1 H	98526	179
plating, silver	97656	50
carbonate - production - Austria	98011	142
chloride - dehydration	98191	229
determination - Germany	97136	181
	97136s2t	52
	97136s4t	122
	97136s5t	122
	97136s6t	50
	97136s7t	122
	97136s16t	122
oxide see Magnesia		
production	98191	229
recovery - patents - Germany	84559t6	149
salts - Germany	96813	219
zirconium alloys	97604	49
Magnetic:		
materials - Japan	98800	230
permeability	98535	161
wire recorders see Recorders, magnetic wire		
Magnetron vacuum tubes see Vacuum tubes, magnetron		
Mahle K. G., Stuttgart, Ger.	97854	89
Mannesmann Röhrenwerke, Huckingen, Ger.	96240	52
Witten, Ger.	97513	53
Marine:		
borers	98100	83
	98103	82
	98104	83
	98108	84
	98109	85
noise see Sound, underwater		
Matches:		
manufacture - Germany	97482	54
patents - Germany	85026	151
Materials:		
effect of hydrogen peroxide	97942	117
erosion resistance	97575	35
heat resistant	98125	124
microscopic inspection	97957	81
testing standards	97848	90
tests	97575	35
thermal properties	98123	123
Mathematical equations and solutions	96916	127
	96927	126
	98390	235

	PB	Page
Mathematics, applied:		
aerodynamics	97088	126
	98390	235
Germany	85043	186
	85044	186
Matrices	97397	132
Mattresses, air	96893	142
Meat	97317	12
canned	98267	116
Germany	97835	42
Mechanisms, servo see Servomechanisms		
Medical:		
instruments and apparatus - patents - Germany	85026	151
service, industrial - Germany	85031	48
Medicine, aviation	97034	88
	97274	88
Melubrin (Trade name)	32536t21	31
Membranes, clay - cation effect	98418	230
Meningitis, tuberculous - Gt. Brit	98207	175
Mercury compounds	97048	6
Germany	32536t32	32
Merlon BR (Trade name)	98652	191
Messer & Co., G.m.b.H., Frankfurt am Main, Ger	97133	173
Messerschmitt A. G., Oberammergan, Ger	97302	246
Metalite (Trade name)	98113	85
Metallgesellschaft A. G., Frankfurt am Main, Ger	96898	89
Metallurgy:		
patents - Germany	97369	148
powder -		
bronze - Australia	97090	24
Germany	97432	22
Metal(s):		
age hardening	98741	178
casting -		
bibliography	97470	53
patents - bibliography	97470	53
chemical analysis - patents - Germany	97369	148
corrosion prevention	98753	228
	98777	238
crystal	97647	89
etching - Germany	98083	178
fatigue	98038	89
ferrous - Germany	98500	227
friction - Japan	97050	179
hard -		
melting point - Germany	96794	227
production - Germany	96793	227
	96798	229
Sweden	96793	227
sintering - Germany	96792	228
light - electroplating	97656	50
non-ferrous - rust preventives	98664	228
powders - sintering	97793	92
patents - Germany	70147t4	149
printing - photographic	98781	232
scrap see Scrap metal		
Metal(s) - Continued		
self-diffusion	97335	51
surfaces - precision grinding	97938	233
tests	97848	90
see also metals by name		
Meteorological instruments see Instruments, meteorological		
Meters:		
dew point - H-1	97100	64
flow	98897	222
sound level - Germany	98758	247
Methacrylic acid -		
esters - polymers	97568	35
see also Plexiglas		
Methane:		
bromo - mixtures - Germany	32536t20	31
diazo - Germany	97857	107
nitro -		
explosive properties	97750	169
propellant properties	97571	118
	97736	76
production - Germany	97486	69
uses - Germany	95133	167
Methanol:		
production - Germany	97486	69
thermodynamic properties	97561	45
Methyl:		
alcohol see Methanol		
nitrate - explosive properties	97750	169
Mice - immunization	97301	88
Micelles	97404	38
Microfilms - selectors	97313	55
	97313s	125
Microorganisms - effects of freezing	98217	218
bibliography	98218	163
Microphones, throat - Germany	98679	159
Microscopes, electron	97957	81
	98613	190
Milk, dehydrated	98260	217
	98261	217
	98262	218
deterioration	98251	163
Mineral oils:		
Germany	70183t3	4
viscosity - Japan	97762	169
Mineralogy - Germany	85036	53
Mirrors:		
glass - infrared permeability	98205	230
manufacture - Germany	97615	55
Modulation:		
frequency see Frequency modulation		
pulse	97269	146
Modulators, spark gap-inventions	97227	145
Molded plastics see Plastics, molded		
Molecular structures - diffraction patterns	97702	97
Sweden	97647	89
Molecules - spectro-analysis	98611	234
Molybdenite - oxidation	97474	44
Molydenum tungsten alloys	98126	125
Monel metal	97740	90
Mortar (building material) - strength - Sweden	98673	230
Motion pictures -		
patents - Germany	85026	151
see also Films (photography)		
Motor(s):		
electric - Germany	97392	41
servo see Servomechanisms		
vehicles - Germany	98049	252
Mountings, rubber	98076	128
Mounts:		
camera	63657s2	183
engine - stress analysis	98569	196
Mouth diseases	97049	26
Mowilith CT (Trade name)	33451t	33
Mufflers, exhaust - inventions	97250	148
Multipliers	96954	29
audio-frequency	98308	170
cathode ray	98308	170
Munitions industry - tools - Germany	96825	225
Muscle action - research	97363	226
Mustard gas:		
detection	98523	155
nitrogen - antidotes	98539	158
toxicity	97056	175
Myrol (liquid fuel)	97738	168

N

	PB	Page
Nacelles, engine:		
stress analysis	98569	196
wind tunnel tests	98542	247
Naphthalene:		
oxidation - Germany	98202	110
production - Germany	98203	112
Naphthenes - Germany	46708t	45
Naphthol, β	70058t11	111
1,4-Naphthoquinone - Russia	97071	7
Naturasphalt G.m.b.H., Eschenshausen, Ger	97017	188
Navier - Stokes equation of fluid motion	97346	127
Navigation, aerial	97102	64
	97103	63
Gt. Brit	97128	10
Nekal (Trade name)	94852	209
Neoprene -		
uses	98831	238
see also Rubber, synthetic		
Nervous system - function tests	97363	226
Neutrons:		
intensity	96763	237
resonance levels	96977	237
scattering	96988	237

	PB	Page
New London Navy lantern (color vision test)	97101	24
Nickel	97740	90
alloys	97740	90
S-816	97795	91
tensile properties	97795	91
determination	98492	178
Nioxime (Trade name)	98492	178
Nitrates:		
liquid - propellant properties	98724	220
production - Germany	98882	204
Nitric acid:		
decomposition	98494	157
ignition tests	97747	74
reactions	97560	44
	97798	118
uses - Germany	98603	210
Nitrocellulose - physical properties	98828	231
Nitrogen:		
liquid - sound absorption	97709	184
oxides -		
adsorption	98185	106
explosive properties	97750	169
Nitroglycerine - production - Germany	97668	70
Noise:		
background -		
Bahama Islands	81557	235
Florida	81557	235
Miami, Fla	81558	232
reduction	97057	8
hydraulic	98145	126
measurements - Germany	98758	247
random	98332	160
Norddeutsche Affinerie, Hamburg, Ger	98275	156
Norephedrine, 3,4-dihydroxy hydrochloride	32536t42	31
Novalgin (Trade name)	32536t25	2
Novocain:		
nitrate - production - Germany	32536t44	2
production - Germany	32536t26	2
	32536t27	2
Novocain special (Trade name)	32536t45	2
Nozzles:		
fuel	97450	197
Germany	23874t	28
injection - Germany	97160	252
laval	97306	132
Russia	98937	223
Nuclear physics	96989	162
research	97420	57
see also Atomic power		
Nuclei - reactions	96974	237
Nurseries (horticulture)	97383	129
Nutrition:		
metabolism	98229	165
	98231	164
research	98241	164
Germany	98091	116
	98092	116
	98093	116
Nuts - tests	97712	136
Nylon:		
drying	97276	61
porosity	97637	100
Nylon - Continued		
treated	98652	190
uses	98665	206
water absorption	97276	61
see also Plastics		

O

	PB	Page
Oceanography - research	97782	234
Oestradiol - synthesis - Germany	97857	107
Oil(s):		
edible - Germany	97835	42
fields - Russia	97063	14
	97064	15
	97065	13
fuel -		
atomization	97741	77
polyethylene - Germany	97790	167
hydraulic see Hydraulic fluids		
lubricating see Lubricating oils		
mixtures	97159	251
pressure - measurements - Russia	97066	14
sands - oil recovery - Russia	97065	13
	97066	14
shales - carbonization - Germany	98744	219
tanks see Tanks, fuel		
viscosity	97187	118
Japan	97762	169
see also Engines-lubrication; Fats; Fuels; Hydraulic fluids; Lubricants		
Ointment(s):		
bases	98000	106
	98001	106
lime	98001	106
Optical instruments see Instruments, optical		
Orasthin (pituitary extract)	32536t50	106
Ore dressing:		
Germany	96840	219
machinery - Sweden	98063	119
Organoleptic testing	98515	163
Organosiloxanes - physical properties	97939	235
Oscillations, lateral - Gt. Brit	97141	246
Oscillators, high frequency	97260	147
Oscillographs - Germany	98552	222
Oscilloscopes	98079	171
Osran G.m.b.H., Berlin	96798	229
Osterreichisch-Amerikanische Magnesit A. G., Padenthein, Austria	98011	142
Oxidants	97815	71
Oxidase, cytochrome	97345	38
Oxo G.m.b.H., Oberhausen, Ger	97484	111
Oxo process	96898	89
Germany	70183t3	4
Oxygen:		
compounds	97159	251
	97571	118
RB-1	97275	5
Oxygen - Continued		
compounds - Continued		
safety tests	97275	5
	97744	75
deficiency	97448	226
	97478	48
determination - Russia	97069	7
electrolysis - Germany	97021	38
Germany	97501	42
liquid -		
shock sensitivity	97753	79
sound absorption	97709	184
viscosity	97743	78
masks see Respirators		
production	98691	210
Ozolerit Lunacera 10364 (plastic product)	97880	69
Ozone - tests	98423	157

P

	PB	Page
Paints:		
fungus proofing - bibliography	98015	141
industry - Europe	97112	5
luminescent	98657	153
	98658	153
	98809	207
Germany	98471	153
production	98655	153
metal surfaces	97534	36
priming	98669	207
removers	97658	35
	98797	207
specifications -		
Australia	86433	5
S.A.A./INT. 52	86433	5
see also Coatings; Corrosion - prevention; Enamels; Insulating varnishes; Lacquers; Pigments		
Pancreas - enzymes	97804	176
Panels:		
buckling	97634	189
	98767	241
compression tests	98531	242
corrugated -		
compression tests	98560	189
stress analysis	98565	239
curved -		
buckling	98526	179
compression tests	98526	179
stiffened -		
buckling	98528	243
compression tests	98528	243
design	97983	129
stresses	97983	129
	98352	177
	98525	242
	98544	240
Pantothenic acid - synthesis - Germany	97857	107
Paper:		
industry - patents - Germany	85026	151
photographic see Photographic papers		
tests - Sweden	97095	183

	PB	Page
Parachutes:		
canopies - Germany...	97166	143
design...	97336	143
nylon...	97637	100
	98813	243
opening characteristics...	97336	143
packing...	97581	140
speed - Germany...	97171	143
stability...	97336	143
Germany...	97169	143
wind tunnel tests...	97336	143
Parameters...	97060	19
metering...	97402	198
Parasites...	97300	87
Parchment, vegetable - Germany...	97528	183
Particles:		
acceleration - bibliography...	97610	40
charges...	96977	237
Patents -		
bibliography...	97369	148
Germany...	85026	151
	85029	151
	85030	151
Pavements:		
asphalt...	98517	221
flexible...	98517	221
Penicillin:		
culture - Q-176...	98627	203
identification...	98627	203
Perbunan see Rubber, synthetic		
Periodicals - bibliography - Gt. Brit...	98072s	142
Periscopes, submarine...	96909	23
Periston (Trade name)...	96884	4
Pfaff, A. G., Kaiserslauter, Ger...	97852	108
Pharmaceuticals:		
industries - Germany...	97857	107
production - Germany...	97490	71
research - Germany..	97426	31
	97427	176
Pharmacology - Germany...	85047	1
Phenol:		
production - Germany...	764t	70
	97486	69
	97523	35
synthetic - production...	97022	39
Germany...	97853	110
Phenolic resins see Resins, phenolic		
Phenothiazine - therapeutic use - Germany....	97435	174
m-Phenylenediamine - hydrolysis - Germany...	764t	70
Phosgene - physiological effects...	98546	176
Phosphorescence:		
materials - production...	98655	153
	98657	153
	98658	153
measurement...	98655	153
Phosphorous acid compounds...	98614	210
Russia...	97068	7

	PB	Page
Photographic:		
equipment - Canada...	98283	125
patents - Germany..	85026	151
papers - processing - inventions...	97255	150
plates see Films (photography)		
printing...	98781	232
prints - reproduction - inventions...	97249	150
Photography:		
aerial...	63657s3	183
color...	97049	26
films see Films (photography)		
high speed...	96955	25
	96900	65
medical...	97049	26
Photometers...	98816	222
Phthalic:		
acid -		
dibutyl - analysis - Germany...	70063t6	37
production - Germany...	98201	112
	98202	110
	98203	112
anhydride - production - Germany...	97523	35
Phthalodinitrile...	70058t12	111
Physics, nuclear see Nuclear physics		
Pigments -		
zinc chromate - solvents...	98669	207
see also Paints		
Pilots:		
air - position...	97299	63
automatic...	97700	105
Germany...	98899	247
K-23...	97423	105
servo motors - Germany...	97464	105
stability units...	98936	247
tests - Germany....	97423	105
Pipe:		
fittings - Germany..	97024	12
threads -		
New Zealand...	98121s3	147
patents - U.S...	98121s3	147
Pitot:		
static tubes - calibration tests...	97467	134
tubes - Gt. Brit...	96952	201
Plague - vaccines - Germany...	32536t47	3
Planing surfaces...	96920	138
Plaster - manufacture - Germany...	98196	172
Plasticator 32...	97806	98
Plasticity -		
theory...	97394	61
Russia...	91876	143
Plasticizer 77 (Trade name)...	98149	108
Plasticizers:		
Germany...	97880	69
physical properties - Germany...	97808	108
Plastics:		
cast...	98663	152
cellulose - fungicidal properties...	98491	152
coatings, fluorescent...	98490	203
cold molded see Plastics, molded		
deformation...	97568	35

	PB	Page
Plastics - Continued		
dielectric properties...	98537	181
erosion resistance...	97575	35
foam see also Plastics, polystyrene		
Germany...	97880	69
heat resistance...	97572	34
impact tests...	97570	34
	98659	205
industry - Germany...	97498	33
	97521	33
insulating...	98662	152
laminated -		
reinforcement...	98348	181
strength...	98806	205
tests...	98806	205
see also Fiberglas		
lubricants - Germany...	96813	219
Luctie HC-202...	98662	152
Lucite HC-208...	98662	152
materials...	98663	152
methyl methacrylate...	95768	35
molded...	98663	152
production...	97564	34
optical properties..	98662	152
physical properties...	98662	152
plasticizers - Germany...	98149	108
polystyrene - production...	97572	34
production - Germany...	97523	35
	98149	108
research - Germany...	98151	238
temperature effects...	98443	206
	98659	205
tests...	97575	35
	98443	206
	98663	152
thermoplastic -		
fungus effects...	97943	108
moisture effects..	97943	108
thermosetting -		
fungus effects...	97943	108
moisture effects..	97943	108
welding - Germany...	97852	108
Plastikator 32 (Trade name)...	98153	238
Plastikator 88 (Trade name)...	98149	108
Plates:		
buckling...	97026	59
	97291	52
lucite...	97293	87
piezoelectric...	97267	147
sandwich - stability - Netherlands...	97623	190
stiffened -		
buckling...	97107	22
	97201	52
	97208	49
	98530	240
compression tests...	98530	240
stress analysis...	97311	60
	98318	240
stresses...	96954	29
	97454	59
	97635	188

	PB	Page
Plates - Continued		
unstiffened - stress analysis	97551	59
	98312	243
Platforms	96586	142
Plating, chromium - paints	97534	36
Plexiglas:		
stresses	98366	181
welding - Germany	97852	108
Plotters, aircraft	97102	64
Plows, tractor - Germany	97020	20
Plugs, connector	98300	159
Plywood:		
manufacture - Germany	97771	82
tests	98075	154
Pneumococcus infections - immunity	97301	88
Polarization, electromagnetic - France	97051	9
Polishing materials - Germany	96827	225
Polymerization	98668	204
emulsion - methods - Germany	96823	157
theory	97568	35
Polymers	7416s2	26
	7416s3	27
	7416s4	27
	7416s5	27
dielectric properties	98537	181
temperatures	98133	187
uses - Germany	25616t8	60
Polymethylsiloxanes:		
oxidation	97607	117
stability, thermal	97607	117
Polysaccharides, glucose	97425	70
Polyurethans - research - Germany	97154	5
Polyvinyl chloride - chlorination - Germany	97880	69
Porzellanfabrik Thomas, Rosenthal, Ger	97515	180
Position finders	97103	63
Potatoes:		
dehydrated - deterioration	98252	218
dehydration	98254	217
Poultry:		
deterioration	98245	217
refrigeration	78564s	164
	98216	163
Powders:		
double base - preparation	97058	155
metallurgy see Metallurgy, powder		
propellant - reaction speed - Germany	98554	182
Power:		
plants -		
diesel compound - NR3a	97168	47
electric	98504	174
transmission -		
lines	93421	11
Germany	93334	11
	93335	10
	97920	114
Prandtl's rule (2-and 3-dimensional flow)	97391	55
	97395	193
Precipitation static - Germany	97384	39
Presses:		
patents - Germany	85029	151
ring roll (Krupp) - Germany	97082	21
Pressure:		
air - measurements - Gt. Brit	96952	201
earth - theory - Russia	91876	143
measurements	97337	64
regulators, oxygen	97097	64
static	97395	193
	97549	47
Primers	98804	207
Probes, temperature - design	97548	80
Profiles:		
drag see Drag, profile		
pressure distribution - Germany	65656	173
see also Wing profiles		
Projectiles:		
anti-aircraft - fuels	97774	167
water	66213s	126
	66219s	126
Propane - fluorine derivatives - Germany	776t	70
Propellants:		
gun see Powders, propellent		
jet propulsion	98724	220
tests	97747	74
liquid -		
combustion	97734	78
explosive properties	97750	169
Germany	97738	168
performance	97560	44
	97798	118
physical properties	97799	72
powders see Powders, propellent		
solid - physical properties - Germany	97735	166
thermal properties	97774	167
	97799	72
thermochemical properties	97815	71
Germany	98554	182
Propeller:		
blades	98483	197
aerodynamics - Germany	97163	138
	97165	196
compressibility effects - Germany	96185	198
design	97278	136
	97337	64
materials	97190	23
solidity effects	97278	136
tests	97278	136
Germany	96185	198
contra-rotating - Gt. Brit	97140	198
counter rotating - Germany	37251t	135
cycloidal	97213	253
pitch	96931	65
rotation - Germany	37251t	135
shafts see Shafts, propeller		
ship - design	98145	126
tests	97337	64
Propiophenone, dixoy - Germany	32536t16	1
Propulsion:		
jet see Jet propulsion		
research	98039	118
Proteins:		
bibliography	98222	165
metabolism	98222	165
	98228	165
	98242	165
production - Germany	98092	116
research	97804	176
Protons - energy measurements	96764	236
Public health - Germany	85006	139
Pulse:		
circuits see Circuits, pulse		
generators see Generators, pulse		
modulation see Modulation, pulse		
transmission	97955	91
Pumps:		
displacement - tests	97371	6
fuel - Germany	97625	46
heat	97894	119
see also Nozzles		
Pyocloth (Trade name)	98747	206
Pyrazolone, p-tolylmethyl - Germany	32536t38	3
5-Pyrazolone, 1-phenyl-3-methyl - Germany	32536t39	32
Pyretics - research	97967	121
	97968	119
	97969	121
Pyridine, benzyl, p-nitro	98536	155
β-Pyridine - derivatives - chemistry	98748	209
Pyridyl compounds	98182	158
Pyrites:		
by-products	97924	90
smelting	97924	90
Pyrotechnics - manufacture - Germany	97916	183
Pyrrolidone, polyvinyl - Germany	96884	4

Q

	PB	Page
Quartz - temperature effect	98700	171
Quinazoline - derivatives - synthesis	98698	211

R

	PB	Page
Racks, grease	96939	253
Radar:		
airborne - equipment	97377	10
antennas see Antennas, radar		
Canada	97120	9
components	98719	212
converters	85712	114
equipment -		
explosions	97685	40
Germany	23360s	12
height finder - AN/CPS-4	98801	212
navigation - AN/APS-42 (AX-3)	97377	10

	PB	Page
Radar - Continued		
noise reduction	98598	211
rangefinders - generators - inventions	97251	146
receivers	85712	114
transmission lines see Radio transmission lines		
Radiation:		
biological effects	96994	175
intensity - measurements	96989	162
	97955	91
velocity - measurements	97955	91
Radio:		
airborne - tests	97272	8
antennas see Antennas		
communication -		
Gt. Brit	96951	8
predictions	96490	10
condensers see Capacitors		
equipment -		
explosions	97685	40
frequencies -		
measurements	97224	144
	97375	9
	98054	112
	98815	211
modulation	98667	214
see also Modulation		
power - measurements	97240	81
stabilizers	97850	113
interference	19798r	160
elimination	97235	145
	97469	9
measurement	97413	40
	97414	40
Germany	97327	39
meteorological effects	97412	39
noises - Germany	97327	39
receivers -		
diversity - control - inventions	97241	147
interference - tests - Germany	97327	39
noise	98666	159
tests	98667	214
two carrier - Germany	97130	8
reception	19798r	160
signals	98666	159
transmission -		
Gt. Brit	97128	10
lines	97222	146
	97223	146
transmitter -		
T (XA-29) AXT	97585	40
tests	97585	40
tubes see Vacuum tubes		
waves -		
echoes	98685	213
propagation -		
in liquids	97707	113
in metals	97955	91
obstruction - Sweden	98071	112
predictions	96490	10
quality figures	98742	212
sawtooth - clipping - inventions	97997	146
transmission	94002r	162
	98293	161
	98293s	161
Radioactive substances:		
physiological effects	97446	47
	97461	48
protection	97294	86
Radiobromine	96974	237
Radioiodine	97409	57
Radioisotopes - safety precautions	97421	56
Radiophysics - Canada	97120	9
Ramie	95655	26
fiber	95655	26
industry - Japan	97859	60
	97869	61
preparation	97342	27
Rare earths - research - Germany	97918	182
Raschig, F., G.m.b.H., Ludwigshafen, Ger	97022	39
Mundesheim, Ger	97486	69
Rats - parasites	97300	87
Rautenbach, Rudolf, G.m.b.H., Solingen, Ger	97854	89
Rayon:		
acetate - ironing - Germany	82155t2	130
copper recovery - patents - Germany	70147t	149
industry - Germany	97834	60
swelling	82155t	27
viscose - manufacture - patents - Germany	70147t2	151
	70147t3	151
yarn - tests Germany	74235t4	131
Reactors, saturable-core	98367	170
Receivers	97130	8
frequency	98667	214
Recorders, magnetic wire - Germany	97131	8
Rectifiers:		
crystal	98415	161
mercury arc - Germany	97392	41
Reduction, electrolytic - patents - Germany	84559t6	149
Refractory materials - research	97813	124
Reflectors - Germany	97781	125
Reflectoscopes - inventions	97267	147
Refrigerants - Germany	776t	70
Regulators - pressure see Pressure regulators		
Remote control systems	98547	213
Rennet	74930t4	107
Reppe synthesis - Germany	97364	37
	97367	36
Research - Germany	94003	142
Resin:		
DC 992	97941	109
Germany	575t	70
phenol formaldehyde - fungicidal properties	98491	152
phenolic - production - Germany	70058t5	110
	97520	33
phenolphthalein - Germany	97808	108
silicone	97940	109
	97941	109
synthetic	98663	152
Germany	97520	33
production - Germany	97502	34
Resin - Continued		
synthetic - Continued		
production - Germany - Continued	97518	33
	97523	35
Redux	98770	206
uses	98660	152
see also Coatings, protective; Compounds, sealing; Plastics; Plywood; Polymerization; Polymers; Rubber, synthetic		
Resonant circuits see Circuits, resonant		
Resorcinol - production - Germany	764t	70
Respirators - canisters - filling materials	98507	158
Resuscitation	97448	226
Reticles - production - Germany	97615	55
Reynolds number	97362	127
	98571	249
effects	97334	184
	97407	132
	98577	223
Rheinisch-Westfalisches Electricitätswerk A. G.	97920	114
Rheinmetall-Borsig A. G., Düsseldorf, Ger	97526	51
Rheumatic fever	98062	121
Rheumatism	98062	121
Riebeck'sche, A. Montanwerke A. G., Darmstadt, Ger	97083	35
Rivets:		
design	98548	242
LS 405	98540	241
patents - Gt. Brit	98121s4	149
S 9496	98766	243
strength	98548	242
Röchling Buderus, Wetzlar, Ger	97526	51
Rock wool - manufacture - Gt. Brit	97715	180
Rocket(s):		
antennas	98648	214
engines see Rocket motors		
fuels	97747	74
research - Germany	97735	166
jets	97381	252
motors -		
combustion	97159	251
cooling	98904	224
fuels - combustion	97734	78
performance	97571	118
propellants - thermochemical properties	97563	43
	97567	45
V-2	98648	214
Roller bearings - friction - France	96958	20
Rools, steel - manufacture - Austria	97081	50
Germany	97081	50
Rosin see Resins		
Rost & Co., Hamburg, Ger	97852	108
Rotating bodies - aerodynamics	97408	200
Rubber:		
buna -		
deformation - measurements - Germany	98153	238

	PB	Page
Rubber - Continued		
buna - Continued		
degradation -		
Germany	98152	239
Germany	97880	69
manufacture -		
Germany	97019	99
mixtures -		
Germany	97809	99
plasticizers -		
Germany	98156	239
production -		
Germany	98156	239
	98575	187
storage - Germany	98152	239
	98164	237
tests - Germany	98150	237
	98156	239
coatings on metal	98777	238
deformation - measurements -		
Germany	98153	238
foam - uses -		
Germany	98151	238
latex - production -		
Germany	97519	98
properties - Gt. Brit.	97737	98
synthetic	98076	128
aerating agents -		
Germany	98151	238
chlorination -		
Germany	97519	98
elasticity - patents -		
Germany	73604t7	150
fabrication	97566	99
	98774	238
aids - patents -		
Germany	73604t8	150
fungicidal		
properties	98491	152
	98831	238
GR-S	98491	152
physical properties	97562	99
	98774	238
polymerization -		
Germany	97519	98
preparation -		
Germany	97154	5
properties	98776	238
research -		
Germany	98151	238
silicone	98489	187
specifications	98090	128
temperature effects	98776	238
tests - Germany	98153	238
uses	98670	239
vulcanization	98889	239
Germany	97811	99
welding properties - patents -		
Germany	25616t12	150
tensile tests -		
Gt. Brit	97737	98
tires see Tires, rubber		
Rudders, aircraft -		
Gt. Brit	97141	246
Ruhrchemie A. G.,		
Oberhausen, Ger	97330t	39
	97330t2	38
	97484	111
Sterkrade, Ger	97083	35
Ruhrstahl A. G., Presswerk,		
Bettenhausen, Ger.	97919	116
Rust preventives	98664	228
VPI 220	98664	228
VPI 260	98664	228

S

	PB	Page
Salcomine - pilot		
plant	98691	210
Salicylic acid - derivatives -		
preparation -		
Germany	32536t29	33
Salt mines -		
Germany	97320	124
	97485	180
Salvarsan - production -		
Germany	97488	32
Salyrgan (Trade		
name)	32536t30	3
Salyrgan solution new D		
(Trade name)	32536t31	33
Salyrgan theocin (Trade		
name)	32536t32	32
Sand blasting - patents -		
Germany	97055	148
Sandwich con-		
struction	96934	59
	98099	84
	98366	181
	98531	242
	98767	241
	98805	241
Gt. Brit	97634	189
Schering, E., A. G.,		
Berlin	97194	60
Schistosoma		
Mansoni	97962	120
Schmidt, Karl, G.m.b.H.,		
Neckarsulm,		
Ger	97854	89
Schütz, Georg Frankfurt am		
Main, Ger	97083	35
Scientific research	98072	142
bibliography	98050s	141
	98192s	141
	98271	141
Scientific Zetko		
Exchange	576t	70
	601t	70
	720t	71
	764t	70
	770t	69
	776t	70
	791t	70
	811t	71
	33451t	33
Scrap metal - recovery processes -		
Germany	96792	228
Sea water -		
potability	93937	140
Seaplanes:		
hydrodynamics	97207	102
landing shock	97456	193
see also Flying boats		
Searchlights -		
Germany	23360s	12
Seats pilot - tests	97599	246
Sedimentation -		
Germany	96857	141
Sego (Trade name)	96793	227
Selectors	98308	170
Selenides	98614	209
Semicarbazide hydro-		
chloride	74930t12	107
Sensitivity test	97753	79
Serums, anti-		
bacterial	98184	106
Servomechanisms	98367	170
Sewage disposal		
systems	97374	139

	PB	Page
Shafts:		
propeller -		
Germany	96960	253
rotating	96912	21
stresses	96912	21
Shale oil industry -		
Russia	97329t	13
	97329t2	13
	97329t3	13
	97329t4	14
	97329t5	14
Shear	97324	133
stress - measure-		
ment	97311	60
	97623	190
	98335	176
Netherlands	97622	195
tests	97148	5
	98035	129
Shells (aircraft),		
cylindrical	97694	130
design - Russian	96957	190
Shigella Flexneri	97970	120
Shipbuilding	98112	83
Ships:		
plates -		
fracture tests	97726	90
stresses	97726	90
propellers see Propellers, ship		
sabotage -		
Germany	89610	253
welding - tests	98198	122
Shipyards - Sweden	97339	253
Shock waves	97379	55
gases	96877	233
measurements	98901	232
thermodynamics	98545	235
viscosity	98578	250
Shovels, snow	97030	140
Shutters, camera -		
tests	63657s2	183
Siebert, G., G.m.b.H.,		
Hanau, Ger	97505	61
Siemens & Halske A. G.,		
Berlin	97083	35
Siemens-Schuckertwerke A. G.,		
Berlin	93334	11
	97023	51
	97085	42
	97200	12
Sieves - Sweden	98063	119
Signalling devices - patents -		
Germany	85026	151
Silicates - vibration		
frequencies	98417	231
Silicon:		
carbide - uses	98127	124
oxides	98417	231
Silicones	97607	117
Silk industry -		
Germany	97834	60
Silumin	97136s2t	52
	97136s4t	122
	97136s5t	122
	97136s6t	50
	97136s7t	122
	97136s16t	122
Silumin G.m.b.H., Frankfurt am		
Main, Ger	97136	181
	97136s2t	52
	97136s4t	122
	97136s5t	122
	97136s6t	50
	97136s7t	122
	97136s16t	122

	PB	Page
Silver	96970	179
alloys - chemical properties - patents - Germany	84559t	149
Simulators - design	97281	17
Sine waves	97363	226
Skin - temperature	97372	86
Slag:		
German	97078	181
products - patents - Germany	84559t5	150
Soap:		
solutions	97404	38
see also Detergents		
Sodium:		
borohydrides - thermal properties	97732	74
perborate - Germany	97196	67
silicate - production - Germany	97484	111
taurocholate	74930t10	107
Soft iron - magnetic measurements - Germany	96831	222
Soldering -		
methods -		
Germany	97023	51
inventions	97265	149
patents - Germany	93612	151
see also Brazing; Welding		
Solders, steel - patents - Germany	84559t2	149
Solids - diffusion	97710	186
Sonar	97782	234
Germany	98714	236
see also Sound, underwater		
Sound:		
absorption	97709	184
diffraction	97722	97
generators see Generators, noise		
high frequency - physiological effects	97298	226
intensity	81494	233
measurements	96955	25
proofing - Gt. Brit	97717	129
see also Noise		
transmission	97782	234
measurements	97057	8
underwater	88499	185
detection - Germany	98714	236
measurements	81498	235
	86231	233
Bahama Islands	81557	235
Florida	81557	235
	81558	232
receiving equipment	97878	79
JQ	97878	79
research	97782	234
sources	98145	126
transmission	86237	128
see also Hearing; Noise Sonar; Soundproofing		
Soybeans - research - Germany	98092	116
Spectrometers, x-ray	97938	233
Spectrophotometers	98816	222
Speech:		
intelligibility	97057	8
transmission	97057	8
see also Velocity		
Spinach	98264	115
Spinnerettes - manufacture - Germany	97505	61
Spinning machines - Germany	70186s	36
	74390t26	25
Sponges, synthetic	98670	239
Sporting goods - patents - Germany	85026	151
Spot:		
lights, hand-operated	97272	8
welding see Welding, spot		
Springs, quartz	98700	171
Stability:		
calculations	96919	138
dynamic	97700	105
lateral	97380	138
measurements	97027	63
longitudinal	97206	63
	97380	138
	97397	132
	97408	200
	98320	200
rolling	97217	102
Starch - viscosity	98684	219
Static precipitation see Precipitation static		
Stator blades - performance	97323	197
Steam:		
boilers - corrosion - Sweden	97354	37
utilization - Germany	97386	140
Stearic acid, butyl - Germany	70058t7	109
Steel:		
alloys -		
hardenability	98630	228
high temperature - Germany	97042	22
Hy-Tuf	97989	122
mechanical properties	97989	122
Bessemer - Germany	55979s	23
	96240	52
carbon - manufacture - Germany	93018	92
castings - gating	97403	23
corrosion -		
prevention	98777	238
resistant	96909	23
deformation - Germany	97378	51
gun - tests	85987	123
industries see Iron and steel industries		
manufacture - Germany	97921	90
metallurgy	97724	91
	97725	91
nickel -		
physical properties	97764	88
substitutes	97764	88
plates - tests	98199	122
plating -		
cadmium alloys	97655	51
zinc alloys	97655	51
production - Germany	96240	52
sintered - Germany	93018	92
structural - Germany	97198	187
tool see Tool steel		
welds - tests	86490s	22
Steinhoff, O. H. & Söhen, Dinslaken, Ger.	97081	50
Stiffeners:		
LS 152	98528	243
LS 153	98528	243
Stiffeners - Continued		
LS 154	98528	243
LS 156	98525	242
LS 157	98525	242
LS 166	98525	242
LS 173	98544	240
LS 174 "V"	98544	240
Stills, vacuum - South Africa	97357	37
Storage, underground - fire fighting - Gt. Brit	97721	140
Strain gages see Gages, strain		
Street lighting - patents - Germany	85026	151
Streptomycin - therapeutic use - Gt. Brit	98207	175
Stress analysis	98312	243
methods	98557	189
Stresses:		
bending	97204	129
compression	96934	59
	96935	59
	97026	59
	97107	22
	97208	49
	97454	59
	97551	59
	98318	240
distribution	97074	58
	97324	133
	97635	188
measurements	97025	58
	97401	51
see also subdivision stresses under metals by name		
Structural engineering - Germany	97198	187
	98135	173
	98197	190
Stuttgart 43 (land mine detector)	97105	54
Styrene:		
analysis - Germany	70063t5	37
-methyl -		
preparation	97566	99
purification	97562	99
Styrol - polymerization - Germany	96823	157
Submarines - pressure tests - Germany	81727	253
Succinic acid -		
derivatives - Germany	811t	71
Sugar:		
beets - conservation - Germany	98274	115
physiological effects	98255	216
Suits:		
flying -		
electrically heated	97273	1
tests	97273	1
wind-break	96894	1
Sulfadiazine - bactericidal action	97791	66
Sulfathiazola - bactericidal action	97791	66
Sulfides:		
di - preparation - Germany	98617	211
production - Germany	98617	211

	PB	Page
Sulfite(s):		
liquor, waste - aeration	98475	156
uses - Russia	97071	7
Sulfonamides:		
bactericidal action	97791	66
Germany	97913	107
therapeutic use - Germany	97435	174
Sulfonation - research - Russia	97070	7
Sulfur:		
detection - Sweden	97354	37
determination - Russia	97069	7
Sulfuric acid:		
derivatives - Russia	97070	7
plants - Germany	98276	156
production - Germany	97384	39
	97851	111
	98275	156
Supersonic:		
sound see Sound, high frequency		
tests	97150	62
Surface, tail see Tail surfaces		
Surgery - Germany	85048	47
Survival, arctic	97272	8
Swine - effects of x-ray	97972	120
Switches:		
electric - inventions	97229	144
radio frequency - inventions	97259	146
Synchroscopes:		
design	97355	16
P-4	97355	16
P-4E	97355	16
Syringes - shields	97294	86

T

	PB	Page
Tables - tests	97581	140
Tail:		
design, aircraft	97202	103
surfaces - loads	97397	132
Tanks:		
(combat) - armament - Germany	97923	182
noise	97235	145
fuel - aircraft - Germany	91301	244
sealing	98090	128
Tannins	98105	84
Tape, magnetic - Germany	97131	8
Tar oil:		
phenol separation - Russia	97329t2	13
purification - Russia	97329t3	13
TEA (Technischer Ausschuss)	25626t4	33
Technical research - bibliography	98050s	141
	98192s	141
	98271	141
Technology - indexes	97645	141
Telefunken-Gesellschaft für drahtlose Telegraphie m.b.H., Berlin	97104	183
Telephones:		
apparatus	98300	159
interference - elimination	97469	9
Telescopes - maintenance and repair	97536	126
Teletypewriter interference - elimination	97469	9
Television - cameras - Germany	23360s	12
Temperature - measurements	97548	80
Tensile strength	97148	5
Termites - eradication - South Africa	97361	67
Testes - preparation - Germany	32536t17	2
Tetraethyl lead - production - Japan	98516	156
Textile(s):		
aids - Germany	95192	60
auxiliaries see Textile aids		
dyes and dyeing - fluorescent pigments	98213	108
	98490	203
finishing - Germany	70415t2	27
fireproofing - Germany	98485	191
fungus proofing	98592	191
Germany	7416s2	26
	7416s3	27
	7416s4	27
	7416s5	27
machines - design - Germany	94846	26
Germany	7416s2	26
	7416s3	27
	7416s4	27
	7416s5	27
printing - photographic	98781	232
rot proofing - bibliography	97900	101
shrinking	98574	192
bibliography	98017	100
patents	98017	100
standards	98573	192
testing	98808	243
equipment	98014	101
tests	97711	82
waterproofing - bibliography	98016	130
see also Clothing; Fabrics; and materials by name		
Theaters - stage-setting and scenery - patents - Germany	85026	151
Thermal:		
diffusion see Diffusion, thermal		
energy - utilization - Germany	96839	224
Thermocouples - inventions	97224	144
Thermodynamics	98545	235
bibliography	98334	249
Germany	96839	224
Thermometers, aircraft	98078	134
Thomas-Gilchrist process - Germany	55979s	23
Thorium - radioactivity	98480	229
Thunderstorms	97412	39
Timber - decay - Australia	97629	85
Timers, control	98646	249
Tires:		
automotive - temperature - Germany	98137	187
manufacture - Germany	97019	99
rubber - synthetic - Germany	97880	69
Titanium	97767	93
	97772	92
alloys	97772	92
bibliography	97779	93
carbides	97990	123
melting point - Germany	96794	227
uses	97190	23
	98123	123
	98126	125
	98127	124
carbonization	97990	123
compounds - uses	98126	125
tetrachloride	98810	215
Titeseal (Trade name)	97275	5
TL power units	39113t	251
TNT - thermal conductivity	98346	155
Tobacco - patents - Germany	85026	151
Toluene - production - Germany	97280	168
o-Toluidine - reactions	97560	44
Tonophin (pituitary extract)	32536t50	106
Tools:		
cutting - patents - Germany	85029	151
Sweden	98067	119
hard facing - Germany	96827	225
industry - Germany	98273	119
machine - hard facing - Germany	96825	225
see also Tools, cutting		
steel - uses - Germany	96825	225
tapered	98587	174
Torpedoes:		
aircraft - fuels	97774	167
turbine - 8A2D	97079	46
propulsion units	97079	46
warheads	97079	46
Torque converters	96923	17
	96924	18
Foettinger	96924	18
Torquemeters:		
Germany	98477	171
see also Gages, strain		
Torsiographs	96925	19
Toxicology - Germany	85047	1
Tractors - Sweden	97151	46
Traffic control	97718	221
Trailers - Sweden	97151	46
Transducers - tests	97606	134
Transformers, electric - Germany	97392	41
Transmission:		
lines - Germany	97525	39
systems - electric	97281	17
Germany	97392	41
Transmitters - inventions	97269	146
Treads, caterpillar - inventions	97235	145
Trephining	97293	87
Trigger circuits see Circuits, trigger		
Triptane (Trade name)	92261	4

	PB	Page
Trochotron - Sweden....	98066	113
Trolitul EF/Z (plastic product).....	97880	69
Tronal (insulating board).....	97084	84
Tronova (wood-waste board).....	97084	84
Tropical deterioration - research - Gt. Brit.....	97356	7
Tropicalization:		
tests - Gt. Brit.....	97356	7
see also Fungus proofing		
Trusses - stress analysis.....	96896	58
Trypsin.....	97804	176
T-stoff see Hydrogen peroxide		
Tubes:		
amplifiers.....	97111	9
condenser - metallized.....	98448	230
cutting -		
New Zealand.....	98121s3	147
patents.....	98121s	148
	98121s2	148
	98121s3	147
cylindrical - stresses.....	97635	188
electronic.....	97704	113
Sweden.....	98066	113
see also Vacuum tubes		
glass - metallized.....	98448	230
periscope.....	96909	23
plastic - tests.....	97098	4
radio see Vacuum tubes		
steel -		
bend tests.....	98520	177
production - Germany.....	97513	53
stresses.....	98335	176
welded.....	98519	178
tests.....	98520	177
X-4130.....	98335	176
stresses.....	97624	52
	98562	241
	98564	240
Tuimaz Oil Field, Tuimaz, Russia.....	97063	14
Tung oil.....	98141	117
Tungsten carbide - preparation - Germany.....	96801	227
Turbines:		
aerodynamic.....	97323	197
	98321	199
	98327	174
aircraft.....	97184	136
axial.....	98577	223
blades -		
aerodynamics.....	97552	46
	97699	135
	98577	223
ceramic.....	98123	123
materials - Germany.....	98784	225
	98830	225
exhaust driven - efficiency.....	92260	196
flow.....	98555	223
gas.....	96839	224
blades.....	97190	23
controls.....	97985	196
design.....	97893	119
	98555	223
	98925	248
see also Jet engines, turbo-jet		
Turbines - Continued		
high pressure steam.	85170s	224
tests see Jet engines, turbo-jet		
wheels.....	98441	228
Turbo jet engines see Jet engines, turbo-jet		
Turbulent flow see Flow, turbulent		
Typha.....	16390	27
Typhus - pathology - Egypt.....	97297	87

U

	PB	Page
Ultrasonics:		
research - Germany.....	98712	161
testing - Germany.....	98712	161
Underwater searching.....	98278	222
	98279	223
Underwear, knitted - shrinking.....	98574	192
Undulant fever - vaccine - Germany.....	32536t33	3
Uniforms, winter - tests.....	96894	1
Union Generatoren G.m.b.H., Cologne, Ger....	97018	19
USS LSM 458 (standard landing ship medium)....	97213	253
Uterus, effects of drugs on.....	32536t50	106

V

	PB	Page
Vacuum tubes:		
magnetron.....	97231	144
Germany.....	23360s	12
mixing.....	98054	112
SA987.....	97111	9
6AK5.....	97111	9
velocity modulated - Germany.....	23360s	12
Valeric acid compounds - Germany.....	32536t35	33
Valves:		
check.....	97097	64
exhaust - temperature - Germany.....	96163	199
Valyl (Trade name)...	32536t35	33
Vanadium:		
catalyst - Germany..	97851	111
solubility - patents - Germany.....	84559t4	150
Varnishes:		
drying agents.....	97940	109
	97941	109
Germany.....	97880	69
industry - Europe....	97112	5
see also Lacquers; Paints		
Vegetables:		
carotene content.....	98265	115
frozen see Food, frozen		
oils - viscosity - Japan.....	97762	169
preservation - Germany.....	97835	42
Velocity:		
measurements.....	96913	16
	97422	199
	97693	195
subsonic.....	97279	194
	97653	195
Velocity - Continued		
subsonic - Continued		
Germany.....	96956	61
supersonic.....	96895	102
	97027	63
	97150	62
	97653	195
	97844	244
	97845	244
measurement.....	97075	103
Germany.....	98391	128
transonic.....	97653	195
measurement - Germany.....	97170	40
Russia.....	98937	223
ultrasonic.....	97279	194
Ventilation systems.....	95253	142
see also Fans		
Vereinigte Aluminwerk, A. G., Lautawerk, Lausitz, Ger.....	97136	181
	97136s2t	52
	97136s4t	122
	97136s5t	122
	97136s6t	50
	97136s7t	122
	97136s16t	122
Vereinigte Deutsche Metallwerke A. G., Heddernheim, Ger.....	97854	89
Vereinigte Flusspatgruben G.m.b.H Stulln. Ger....	97917	111
Vereinigte Glazstoffe-Fabrinen A.G., Seehog, Ger.....	82155t2	130
Vereinigte Leichtmetall-Werke G.m.b.H., Hannover, Ger.....	98083	178
Vibration:		
control.....	98419	186
measurements.....	97074	58
formulas.....	96914	127
Germany.....	98122	171
Vinnol H (Trade name).....	97880	69
Vinnol HH (Trade name).....	97880	69
Vinyl:		
acetate - polymerization - Germany.....	33451t	33
ethers - preparation - Germany.....	601t	70
Vinylation - Germany.....	97524	45
Viscometers.....	98684	219
Viscose process (German).....	7416s2	26
	7416s3	27
	7416s4	27
	7416s5	27
Viscosimeters see Viscometers		
Visibility - measurement.....	98629	234
Vitamin B - effect on yeast.....	97780	66
Vitamin E - research - Germany.....	32536t36	3
Vitamins - Germany.....	97835	42
Voltage:		
dividers - probes..	97539	80
measurements.....	98694	213

	PB	Page
W		
Wa-Ko (ribbon parachute canopy)	97166	143
Wacker, Alexander, Gesellschaft für Elektrochemische Industrie G.m.b.H., Burghausen, Ger	97518	33
	98193	158
Waistbands	97033	1
Walls, fire - tests	97125	194
Water:		
heavy - infrared spectrum	98605	234
power - Germany	97192	139
treatment - Gt. Brit	93972	141
turbidity	96913	16
Wave(s):		
guides -		
attenuators - erosion reduction	97677	40
bends	98566	160
coupling - inventions	97261	147
instruments	98293	161
	98293s	161
ocean - surface elevation	96930	141
propagation -		
electromagnetic - Germany	98533	214
velocity	98628	242
supersonic -		
diagnostic uses	97973	121
effect on lubricating oils - Japan	97757	169
Germany	23869t	27
Waxes	98105	84
dielectric properties	98537	181
montan - Germany	97083	35
production - Germany	97083	35
synthetic - Germany	97083	35
Webbing, nylon - abrasion resistance	98652	191
	98813	243
Webs:		
shear - strength	98716	240
stiffened - strength	98716	240
Welding:		
arc - high frequency - interference suppression	97469	9
butt - Germany	97024	12
electrodes	97457	41
gas - Germany	97133	173
methods - Germany	97023	51
research - Germany	97085	42
resistance - Germany	97200	12
spot	27095	24
	27096	24
tests	98544	240
	98651	208
tests	86490s	22
see also subdivision welding under metals by name		
Welds:		
butt	86490s	22
strength	98544	240
tests	86490s	22
Wessel, Keramische Werke A. G., Bonn. Ger.	97515	180
Wetting agents - Germany	811t	71
Whooping cough - vaccines	32536t37	3
Wind tunnels:		
balances	98839	244
boundary effect	97096	201
calibration	98839	244
nozzles - tests	98840	244
	98844	245
simulators, supersonic	98786	249
supersonic - windows	98351	182
tests	98317	248
	98542	247
Wings:		
aerodynamics	96895	102
	96932	28
	97096	201
Germany	97890	201
aspect ratio	97553	133
boundary layer	97149	245
	97307	193
compressibility effect	97459	134
construction	97660	195
cruciform	97653	195
design	97201	52
drag	97150	62
flutter -		
calculations	97348	137
	97697	196
tests	97147	104
	97652	195
Gt. Brit	97142	246
Italy	97455	194
interference	97844	244
	97845	244
lift	97459	134
loading	97397	132
materials - tests	97191r	104
panels - tests	97107	22
	97201	52
	97208	49
pressure distribution	97326	131
Germany	97650	193
profiles - measurements - Germany	97650	193
rectangular	97408	200
aerodynamics	97652	195
rolling moments	97553	133
stress analysis	98716	240
stiffners	97107	22
stiffness	97201	52
	97208	49
stress analysis - Netherlands	97622	195
sweptback -		
aerodynamics	97145	28
lift distribution	97109	30
	97307	193
	97347	62
pressure distribution - Germany	39113t	251
trapezoidal	97315	194
Wings - Continued		
tapered -		
aerodynamics	97279	194
	97459	134
	97553	133
damping	97145	28
tests - Gt. Brit	97633	192
theory	96932	28
triangular	96932	28
untapered	97217	102
vibration	97147	104
	97652	195
see also Aerodynamics; Airfoils		
Winkler process	97778	168
Wire:		
copper alloy	98370	177
telephone	98370	177
see also Cables		
Wollastonite	97826	53
Women - anthrometry	98290	226
Wood	98117	84
cellulose see Cellulose, wood		
chemistry	98107	85
conversion products	98110	85
deterioration	98097	83
	98101	84
	98115	83
fungi	98095	83
	98097	83
impregnated	98110	85
insect proofing	98101	84
South Africa	97360	67
laminated see Plywood		
lignin content	98096	83
microscopic examination	97630	84
preservation	98100	83
	98108	84
printing - photographic	98781	232
pulp	7416s2	26
	7416s3	27
	7416s4	27
	7416s5	27
manufacture - Germany	97771	82
research	98094	85
	98116	85
specifications	98112	83
sugar see Xylose		
tar - Sweden	98065	172
uses	98110	85
	98111	83
	98114	85
Germany	97771	82
in packaging	98098	84
waste board - manufacture - Germany	97084	84
wool - Sweden	97093	19
	97094	19
working machines - patents - Germany	85029	151
Wool:		
frictional properties - Sweden	98872	243
rock - Gt. Brit	97715	180
spinning - Gt. Brit.	97986	101

	PB	Page
Wool - Continued		
tests - Sweden.....	98872	243
Wrenches, torque		
indicating.....	97712	136
Wristbands.....	97033	1
WT-3 (Trade name)....	98806	205

X

	PB	Page
X-rays:		
measurements.....	96987	236
photographs.....	96987	236
physiological effects..	97972	120
research.....	97730	97
	97797	80
spectroscopy.....	97730	97
	97797	80
	97938	233
Xenon - Germany.....	97915	111
Xylose - production -		
Germany.....	97835	42

Y

	PB	Page
Yarn:		
cellulose - Germany.	97194	60
finishing - Germany..	70415t2	27
rayon.....	74235t6	131
synthetic - sizing -		
Germany.....	25616t8	60
Yawing moments.....	97381	252
Yeast:		
chemical utilization -		
Germany.....	97429	42
food - production -		
Germany.....	97429	42
	97835	42
	98092	116
glucan.....	97425	70

Z

	PB	Page
Zeiss, Carl, A. G., Jena,		
Ger.....	96918	25
ZETKO (Zwischenprodukt-		
Kommission)...	98558	157
Zinc:		
alloys - uses.....	97655	51
chromate - uses.....	98669	207
salts - Germany....	96813	219
Zincilate (Trade		
name).....	98595	208
Zircon - uses.....	98127	124
Zirconium:		
alloys.....	97954	93
carbides - uses.....	98127	124
oxide - uses.....	98127	124
tests.....	97813	124
Zunderfabrik Mülheim,		
Ger.....	97197	41
Zunderwerke Ernst Brun K.G.,		
Krefeld-Linn,		
Ger.....	97197	41
Zwischenprodukt-Kommission,		
I. G. Farbenindustrie see		
ZETKO		